VILLAGE OF MCFARLAND **Village Board** *NOTICE OF PUBLIC MEETING*

Tuesday, June 27, 2023 **7:00 PM** **McFarland Municipal Center**
Community Room

AGENDA

You are invited to this meeting through a Zoom webinar. The public may attend in-person or remotely through the webinar or telephone options listed below.
PLEASE CLICK THE LINK BELOW TO JOIN THE ZOOM WEBINAR:
https://us02web.zoom.us/j/89299227226

Or by Telephone: +1 (312) 626-6799
Webinar ID: 892 9922 7226
Press *9 to raise/lower hand. Press *6 to mute/unmute.

1. CALL TO ORDER.

2. ROLL CALL.

3. PUBLIC ANNOUNCEMENTS, COMMUNICATIONS, AND PROCLAMATIONS.

4. CONSENT AGENDA.
   a. All items listed under the Consent Agenda will be approved in one motion unless a Board member requests that the item be removed for individual discussion and action. Any item(s) removed for individual consideration shall be considered in the same order in which they were originally listed on the agenda under Business.

      1) Motion to approve the minutes of the June 13, 2023 meeting.

      2) Motion to approve the minutes of the Special June 15, 2023 Village Board meeting.

      3) Motion to approve checks in the amount of $433,059.37.

      4) Motion to approve appointing Meredith Hughey to serve on the Public Safety Committee for a term ending April 30, 2025.

      5) Motion to approve Resolution 2023-13: A Resolution approving the renewal of applications for liquor and fermented malt beverage licenses for 2023-2024.

      6) Motion to approve the final conservancy management plan as created by Resource Environmental Solutions, LLC (RES) as recommended by the Sustainability and Natural Resource Committee.

5. PUBLIC APPEARANCES.
   a. This is an opportunity for members of the public to address the Village Board for items that are not on the agenda. Please remember this is a hybrid meeting conducted in person and through the Zoom online meeting platform. Meeting attendees wishing to address the Board about items not on the agenda may do so at this time. Zoom attendees should type their name and address in the Question and Answer feature within the Zoom online meeting platform at this time. Members of the public who are present in person and wish to address the Board should fill out a public comment form and turn into

the meeting chairperson. When you are called upon to speak, state your name, address, and provide your comments to the Board for their consideration. Please adhere to the 3-minute time limit. Additionally, you may send your public comments to village.clerk@mcfarland.wi.us to be included as part of the meeting.

Members of the public may also speak during their selected agenda item as they designate on the public comment form or in the Question and Answer feature on Zoom.

6. PUBLIC HEARINGS.
   a. Public Hearing on Ordinance 2023-05: an Ordinance updating Tourist Rooming House Regulations.

7. BUSINESS.
   a. Plan Commission (President Clow & Trustee Brassington)
      1) Discussion and action regarding streetscaping services within Segment 7 of the USH 51 WisDOT Project.
   b. Public Works & Utilities Committee (Trustees Wreh & Brandt)
      1) Discussion and action regarding Pellitteri's proposal for refuse collection services.
      2) Discussion and action regarding the 2023 Crackfill and Chipseal proposal for street maintenance.
      3) Discussion and action regarding a proposal for sidewalk maintenance.
   c. Discussion and action to rescind the decision to construct a one-floor option for the Municipal Center renovation as presented within the McFarland Municipal Center Master Plan project.

8. REQUESTS FOR REFERRAL OF NEW ITEMS.
   a. Discussion and action on a referral request from Trustee Wreh and Trustee Fessler to adopt a resolution declaring McFarland a sanctuary for Trans and Nonbinary individuals.

9. SCHEDULE NEXT MEETING DATE.
   a. Village Board - July 11, 2023 - 7:00 p.m.
   b. Special Village Board (Strategic Planning) - July 13, 2023 - 5:30 p.m.
   c. Village Board - July 25, 2023 - 7:00 p.m.

10. ADJOURNMENT.

Any person who has a qualifying disability as defined by the Americans with Disabilities Act that requires the meeting or materials at the meeting to be in an accessible location or format should contact the McFarland Municipal Center at (608)838-3153, 5915 Milwaukee Street, McFarland, Wisconsin, or village.clerk@mcfarland.wi.us by 2:00 p.m. at least 5 business days prior to the meeting so that any necessary arrangements can be made to accommodate each request. If the meeting or request is less than 5 business days from the meeting, requests for accommodations may still be made and reasonable efforts will be made to accommodate each request.

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Consent Agenda**

The Consent Agenda is for routine, procedural, and self-explanatory non-controversial items. Items will be approved by one motion unless a Board member requests that the item be removed. Board members who have a question on an item on the consent agenda or would like to have additional discussion, should request an item be removed from the consent agenda and discussed separately. Items requested to be dealt with separately, will be dealt with in the same order in which they were originally listed on the Consent Agenda under Business.

VILLAGE OF MCFARLAND

Village Board Minutes

Tuesday, June 13, 2023 - 7:00 PM

1. CALL TO ORDER.

Village President Clow called the regular meeting of the McFarland Village Board to order at 7:00 pm in the Community Room of the McFarland Municipal Center.

2. ROLL CALL.

Village Board members present: Village Trustee Hilary Brandt, Village Trustee Stephanie Brassington, Village President Carolyn Clow, Village Trustee Luke Fessler, Village Trustee Michael Flaherty, Village Trustee TJ Jerke, Village Trustee Edward Wreh

Village Board members not present: None.

Staff Present: Deputy Administrator/Clerk Cassandra Suettinger, Police Chief Aaron Chapin, Community and Economic Development Director Andrew Bremer, Public Works Director Lee Igl, Outreach Director Lori Andersen, Fire/EMS Director Chris Dennis, and Communications & Technology Director Stephanie Miller.

3. PUBLIC ANNOUNCEMENTS, COMMUNICATIONS, AND PROCLAMATIONS.

Trustee Wreh provided the following Public Announcements regarding events happening in the Community

June 19th - McFarland High School will be holding a Juneteenth Event at Arnold Larson Park from 5 p.m. to 8 p.m.
June 25th - Pride in the Park Event will be held at Arnold Larson Park from 8 a.m. to 5 p.m.

4. CONSENT AGENDA.

a. *All items listed under the Consent Agenda will be approved in one motion unless a Board member requests that the item be removed for individual discussion and action. Any item(s) removed for individual consideration shall be considered in the same order in which they were originally listed on the agenda under Business.*

1) *Motion to approve the minutes of the May 23, 2023 Village Board meeting.*

2) *Motion to approve the minutes of the May 31, 2023 Special Village Board meeting.*

3) *Motion to approve checks in the amount of $1,225,704.70.*

4) *Motion to approve a proposal from Fahrner Asphalt for sidewalk maintenance.*

5) *Motion to approve a proposal from Town & Country Engineering regarding Final Engineering for Lift Station #2.*

6) *Motion to approve Resolution 2023-10: A Resolution authorizing submittal of the Compliance Maintenance Annual Report (CMAR) for 2022.*

7) *Motion to approve a Tourist Rooming House Permit application for Waubesa Performance Property Management LLC, for the property at 6008 Lake Edge Rd for the*

July 1, 2023 through June 30, 2024 license year as recommended by the Public Safety Committee.

Trustee Fesller requested item #7 be removed from the consent agenda.

Motion by Village President Carolyn Clow, second by Village Trustee Stephanie Brassington, to approve the consent agenda as presented for items 4a)1. through 6. Motion carries 7 - 0 - 0 by acclamation.

5. PUBLIC APPEARANCES.

a. *This is an opportunity for members of the public to address the Village Board for items that are not on the agenda. Please remember this is a hybrid meeting conducted in person and through the Zoom online meeting platform. Meeting attendees wishing to address the Board about items not on the agenda may do so at this time. Zoom attendees should type their name and address in the Question and Answer feature within the Zoom online meeting platform at this time. Members of the public who are present in person and wish to address the Board should fill out a public comment form and turn into the meeting chairperson. When you are called upon to speak, state your name, address, and provide your comments to the Board for their consideration. Please adhere to the 3-minute time limit. Additionally, you may send your public comments to village.clerk@mcfarland.wi.us to be included as part of the meeting.*

Members of the public may also speak during their selected agenda item as they designate on the public comment form or in the Question and Answer feature on Zoom.

None.

6. BUSINESS.

The Board discussed consent agenda item 4 a 7) under business.

Discussion and action on a tourist rooming house permit application for Waubesa Performance Property Management LLC, for the property at 6008 Lake Edge Road for the July 1, 2023 through June 30, 2024 license year as recommended by the Public Safety Committee.

Motion by President Clow, second by Trustee Wreh, approve tourist rooming house permit application for Waubesa Performance Property Management LLC, for the property at 6008 Lake Edge Road for the July 1, 2023 through June 30, 2024 license year as recommended by the Public Safety Committee. Motion carries 7 - 0- 0 by acclamation.

a. *Discussion and action on Resolution 2023-11: a Resolution recognizing Juneteenth in the Village of McFarland.*

Motion by Village President Carolyn Clow, second by Village Trustee Edward Wreh, to approve Resolution 2023-11: a Resolution recognizing Juneteenth in the Village of McFarland. Motion carries 7 - 0 - 0 by acclamation.

President Clow read the resolution into the record.

b. *Discussion and action on Resolution 2023-12: A Resolution recognizing June as LGBTQI+ Pride Month.*

Motion by Village President Carolyn Clow, second by Village Trustee Edward Wreh, to

approve Resolution 2023-12: A Resolution recognizing June as LGBTQI+ Pride Month. Motion carries 7 - 0 - 0 by acclamation.

President Clow read the resolution into the record.

c. *Discussion and action regarding the Public Input Plan as part of the Communications and Engagement Plan being prepared by Revelation: PR, Advertising, and Social Media.*

The Board provided feedback on the Public Input Plan and suggested revisions to include additional stakeholders.

Motion by Village President Carolyn Clow, second by Village Trustee Michael Flaherty, to approve the Public Input Plan as part of the Communications and Engagement Plan being prepared by Revelation: PR, Advertising, and Social Media. Motion carries 7 - 0 - 0 by acclamation.

d. *Discussion and action on selecting the one floor option or the two floor option for the Municipal Center renovation as presented within the McFarland Municipal Center Campus Master Plan project.*

Maura Donnely, 3542 E Dyreson Road, spoke on behalf of the McFarland Youth Center, in favor of constructing a 2-story option.
Carrie Nelson, 5211 N Autumn Lane, spoke in favor of constructing the 2-story option.
Shawn Miller, submitted a letter in support of constructing a 2-story community center.
McFarland Public Library, submitted a letter in support of constructing a 1-story community center project.

The Village Board discussed the options and their preference regarding which option to proceed with.

Motion by Village Trustee Stephanie Brassington, second by Village President Carolyn Clow, to approve the one floor option for the Municipal Center renovation as presented within the McFarland Municipal Center Campus Master Plan project. Motion carries 4 - 3 - 0 by acclamation with President Clow, Trustee Wreh, and Trustee Jerke voting nay.

e. *Landmarks Commission (Trustee Fessler)*

1) *Discussion and possible action to approve a purchase order from Sewah Studios for historical marker signs.*

Motion by Village Trustee Luke Fessler, second by Village Trustee Michael Flaherty, to approve a purchase order from Sewah Studios for historical marker signs in an amount of $23,500. Motion carries 7 - 0 - 0 by acclamation.

f. *Parks and Recreation Committee (Trustees Jerke & Fessler)*

1) *Discussion and action regarding a proposal to develop an Inclusive Playground at Waubesa Intermediate School with the McFarland School District.*

Public Works Director Lee Igl provided an overview of the proposal to develop an Inclusive Playground at Waubesa Intermediate School with the McFarland School District.

Motion by Village Trustee TJ Jerke, second by Village Trustee Edward Wreh, to approve a proposal to develop an Inclusive Playground at Waubesa Intermediate School with the McFarland School District and to commit American Rescue Plan funds to the project. Motion carries 7 - 0 - 0 by acclamation.

2) *Discussion and action regarding a change order to construct Phase 1(b) for the Inclusive Playground at Waubesa Intermediate School with the McFarland School District.*

Motion by Village Trustee TJ Jerke, second by Village Trustee Luke Fessler, to approve a change order to construct Phase 1(b) for the Inclusive Playground at Waubesa Intermediate School with the McFarland School District. Motion carries 7 - 0 - 0 by acclamation.

3) *Discussion and action regarding a proposal for plan, design and bidding services for Phase 2 for the Inclusive Playground at Waubesa Intermediate School with the McFarland School District.*

Motion by Village Trustee TJ Jerke, second by Village Trustee Luke Fessler, to approve a proposal for plan, design and bidding services for Phase 2 for the Inclusive Playground at Waubesa Intermediate School with the McFarland School District. Motion carries 7 - 0 - 0 by acclamation.

g. *Discussion and action on submitting a letter of support for the Village of McFarland to be included in the local negotiated agreement (LNA) process regarding Dane County's Future Sustainability Campus and Landfill.*

Motion by Village President Carolyn Clow, second by Trustee Wreh, to approve submitting a letter of support for the Village of McFarland to be included in the local negotiated agreement (LNA) process regarding Dane County's Future Sustainability Campus and Landfill. Motion carries 6 - 0 - 1 by acclamation with Trustee Wreh abstaining.

h. *Discussion on the revised Village Board schedule for 2023-2024.*

President Clow provided an overview of the updated revised Village Board schedule for 2023-2024.

7. SCHEDULE NEXT MEETING DATE.

a. *June 15, 2023 - Special Village Board - 5:30 p.m.*

b. *June 27, 2023 - Village Board - 7:00 p.m.*

c. *July 11, 2023 - Village Board - 7:00 p.m.*

d. *July 13, 2023 - Special Village Board - 5:30 pm*

8. ADJOURNMENT.

Motion by Village Trustee Stephanie Brassington, second by Village Trustee TJ Jerke, to adjourn at 9:05 p.m.

Pursuant to law, written notice of this meeting was given to the public and posted on the public bulletin board in accordance with Open Meetings Law.

Respectfully submitted,
Cassandra Suettinger
Deputy Administrator/Clerk

VILLAGE OF MCFARLAND

Village Board Minutes

Thursday, June 15, 2023 - 5:30 PM

1. CALL TO ORDER.

Village President Clow called the special meeting of the McFarland Village Board to order at 5:33 pm in the Community Room of the McFarland Municipal Center.

2. ROLL CALL.

Village Board members present: Village Trustee Hilary Brandt, Village President Carolyn Clow, Village Trustee Luke Fessler, Village Trustee Michael Flaherty, Village Trustee TJ Jerke, Village Trustee Edward Wreh

Village Board members not present: Village Trustee Stephanie Brassington

Staff Present: Deputy Administrator/Clerk Cassandra Suettinger.

3. BUSINESS.

a. *Discussion and workshopping the Village's mission, vision statement and core values.*

Without objection the board moved to item 3 b.

At 7:37 p.m. the Board returned back to item 3 a. President Clow suggested Board members send their draft revisions of the Village's mission, vision statement and core values to staff. President Clow noted staff can compile the revisions and bring them forward to discuss at the next Strategic Planning meeting of the Board.

b. *Discussion regarding 2023-2024 McFarland Strategic Implementation Plan as the Village Board goals and objectives for the coming year.*

1) *Goal D: Village Government*

The Board reviewed the current 'Goal D: Village Government' and suggested feedback on additional goals and action steps they would like to see for the upcoming year.

2) *Goal E: Improve the Community experience for residents, businesses, and visitors through its services, safety, history and overall desired qualify of life.*

The Board reviewed the current 'Goal E: Improve the Community experience for residents, businesses, and visitors through its services, safety, history and overall desired quality of life' and suggested feedback on additional goals and action steps they would like to see for the upcoming year.

4. SCHEDULE NEXT MEETING DATE.

a. *June 27, 2023 - Village Board - 7:00 p.m.*

b. *July 11, 2023 - Village Board - 7:00 p.m.*

c. *July 13, 2023 - Special Village Board - 5:30 pm*

5. ADJOURNMENT.

Motion by Village Trustee Hilary Brandt, second by Village Trustee TJ Jerke, to adjourn at 7:43 p.m.

Pursuant to law, written notice of this meeting was given to the public and posted on the public bulletin board in accordance with Open Meetings Law.

Respectfully submitted,
Cassandra Suettinger
Deputy Administrator/Clerk

Report Criteria:
Detail report type printed

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
10	ARAMARK	6140192130	MAT RENTAL	1	06/09/2023	52.33	.00	52.33	06/22/2023
Total 10:						52.33	.00	52.33	
30	ALLIANT ENERGY/WP&L	060923	MUNICIPAL CENTER	1	06/09/2023	3,398.01	.00	3,398.01	06/22/2023
		060923	LIBRARY	2	06/09/2023	2,522.43	.00	2,522.43	06/22/2023
		060923	WELL #4	3	06/09/2023	2,085.62	.00	2,085.62	06/22/2023
		060923	SOCCER BUILDING	4	06/09/2023	14.70	.00	14.70	06/22/2023
		060923	5307 HOUGH ST	5	06/09/2023	24.17	.00	24.17	06/22/2023
		060923	5802 MAIN ST - JOINT ME	6	06/09/2023	152.06	.00	152.06	06/22/2023
		060923	MCDANIEL PARK	7	06/09/2023	75.06	.00	75.06	06/22/2023
		060923	6300 ELVEHJEM/DOG PA	8	06/09/2023	73.82	.00	73.82	06/22/2023
		6922801707	PSC ELECTRICITY	1	06/15/2023	3,629.34	.00	3,629.34	06/22/2023
Total 30:						11,975.21	.00	11,975.21	
68	BADGER WELDING SUPP	3773770	ACETYLENE & OXYGEN	1	06/16/2023	97.86	.00	97.86	06/22/2023
Total 68:						97.86	.00	97.86	
96	BILL'S KEY SHOP INC	55596W	PW ADDITIONAL KEYS	1	06/12/2023	48.13	.00	48.13	06/22/2023
		55596W	PW ADDITIONAL KEYS	2	06/12/2023	13.13	.00	13.13	06/22/2023
		55596W	PW ADDITIONAL KEYS	3	06/12/2023	13.12	.00	13.12	06/22/2023
		55596W	PW ADDITIONAL KEYS	4	06/12/2023	13.12	.00	13.12	06/22/2023
Total 96:						87.50	.00	87.50	
172	CITY OF MADISON TREA	44597	LERMS ANNUAL FEE	1	06/07/2023	9,848.82	.00	9,848.82	06/22/2023
Total 172:						9,848.82	.00	9,848.82	
267	DEMCO INC	7320421	LIBRARY SUPPLIES	1	06/07/2023	231.92	.00	231.92	06/22/2023
Total 267:						231.92	.00	231.92	
280	DIAMOND VOGEL CO	255205129	HYDRANT PAINT SUPPLI	1	06/08/2023	97.54	.00	97.54	06/22/2023
Total 280:						97.54	.00	97.54	
350	FASTENAL COMPANY	WIMAD4523	SIGN PARTS	1	05/31/2023	144.48	.00	144.48	06/22/2023
Total 350:						144.48	.00	144.48	
361	FIRST SUPPLY LLC MADI	13722279-00	WATER-HYDRANT MAINT	1	06/12/2023	560.00	.00	560.00	06/22/2023
		13733822-00	WATER-HYDRANT MAINT	1	06/15/2023	110.00	.00	110.00	06/22/2023
Total 361:						670.00	.00	670.00	
476	JEFFERSON FIRE & SAF	IN303857	SCBA PURGE STEM KIT	1	06/12/2023	73.00	.00	73.00	06/22/2023
Total 476:						73.00	.00	73.00	
492	KAYSER AUTOMOTIVE G	742014	VEHICLE MAINT CAR 26	1	06/20/2023	259.67	.00	259.67	06/22/2023
		742014	VEHICLE MAINT CAR 26	2	06/20/2023	259.67	.00	259.67	06/22/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
		742014	VEHICLE MAINT CAR 26	3	06/20/2023	259.67	.00	259.67	06/22/2023
		742014	VEHICLE MAINT CAR 26	4	06/20/2023	952.10	.00	952.10	06/22/2023
Total 492:						1,731.11	.00	1,731.11	
555	LINE-X OF MADISON INC	25095	TRUCK 33 FLOOR LINER	1	06/19/2023	21.00	.00	21.00	06/22/2023
		25095	TRUCK 33 FLOOR LINER	2	06/19/2023	21.00	.00	21.00	06/22/2023
		25095	TRUCK 33 FLOOR LINER	3	06/19/2023	21.00	.00	21.00	06/22/2023
		25095	TRUCK 33 FLOOR LINER	4	06/19/2023	77.00	.00	77.00	06/22/2023
Total 555:						140.00	.00	140.00	
613	MCFARLAND SCHOOL DI	276	PANCAKE BREAKFAST	1	05/18/2023	346.00	.00	346.00	06/22/2023
Total 613:						346.00	.00	346.00	
747	PIONEER RIM & WHEEL	03CS8371	TRUCK #33 MAINTENAN	1	06/09/2023	19.87	.00	19.87	06/22/2023
		03CS8371	TRUCK #33 MAINTENAN	2	06/09/2023	19.87	.00	19.87	06/22/2023
		03CS8371	TRUCK #33 MAINTENAN	3	06/09/2023	19.87	.00	19.87	06/22/2023
		03CS8371	TRUCK #33 MAINTENAN	4	06/09/2023	72.87	.00	72.87	06/22/2023
Total 747:						132.48	.00	132.48	
756	POMP'S TIRE SERVICE I	80289439	TIRES	1	06/17/2023	5.84	.00	5.84	06/22/2023
		80289439	TIRES	2	06/17/2023	5.84	.00	5.84	06/22/2023
		80289439	TIRES	3	06/17/2023	5.84	.00	5.84	06/22/2023
		80289439	TIRES	4	06/17/2023	21.40	.00	21.40	06/22/2023
		80289704	VEHICLE MAINTENANCE	1	06/17/2023	282.20	.00	282.20	06/22/2023
Total 756:						321.12	.00	321.12	
759	POSTMASTER	062123	BULK MAILING FOR ANN	1	06/21/2023	1,082.00	.00	1,082.00	06/22/2023
Total 759:						1,082.00	.00	1,082.00	
765	LEGAL SHIELD	108629-0615	LEGAL SHIELD	1	06/15/2023	157.50	.00	157.50	06/22/2023
Total 765:						157.50	.00	157.50	
796	REGISTRATION FEE TRU	061223	VEHICLE REGISTRATION	1	06/12/2023	219.50	.00	219.50	06/16/2023
Total 796:						219.50	.00	219.50	
836	SCHILLING SUPPLY COM	918475-00	OPERATING SUPPLIES	1	05/31/2023	796.22	.00	796.22	06/22/2023
Total 836:						796.22	.00	796.22	
957	TOM'S AUTO CENTER IN	0058323	TRUCK REPAIR TRUCK 2	1	05/12/2023	75.54	.00	75.54	06/22/2023
		0058323	TRUCK REPAIR TRUCK 2	2	05/12/2023	20.60	.00	20.60	06/22/2023
		0058323	TRUCK REPAIR TRUCK 2	3	05/12/2023	20.60	.00	20.60	06/22/2023
		0058323	TRUCK REPAIR TRUCK 2	4	05/12/2023	20.60	.00	20.60	06/22/2023
Total 957:						137.34	.00	137.34	
992	US CELLULAR	0583219628	LIBRARY PHONE	1	05/28/2023	64.50	.00	64.50	06/22/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
Total 992:						64.50	.00	64.50	
1085	WI RURAL WATER ASSN	4599	SAFETY TRAINING ANNU	1	06/07/2023	12.41	.00	12.41	06/22/2023
		4599	SAFETY TRAINING ANNU	2	06/07/2023	9.65	.00	9.65	06/22/2023
		4599	SAFETY TRAINING ANNU	3	06/07/2023	9.65	.00	9.65	06/22/2023
		4599	SAFETY TRAINING ANNU	4	06/07/2023	14.24	.00	14.24	06/22/2023
Total 1085:						45.95	.00	45.95	
1256	BOUND TREE MEDICAL,	84978342	PARKS SUPPLIES	1	06/05/2023	274.80	.00	274.80	06/22/2023
		84982221	EMS - SUPPLIES	1	06/07/2023	120.52	.00	120.52	06/22/2023
		84988617	EMS - SUPPLIES	1	06/13/2023	2.55	.00	2.55	06/22/2023
Total 1256:						397.87	.00	397.87	
1264	BARNES INC	173498	MAIN ST/HOUGH ST REN	1	05/31/2023	258.83	.00	258.83	06/22/2023
Total 1264:						258.83	.00	258.83	
1358	EBI INC	217696	LIBRARY FILE CABINET	1	06/02/2023	434.24	.00	434.24	06/22/2023
Total 1358:						434.24	.00	434.24	
1733	MOTOROLA SOLUTIONS	8230414753	NEW BODY WORN CAME	1	06/08/2023	1,410.00	.00	1,410.00	06/22/2023
		8281651042	VHF RADIOS	1	06/16/2023	36,465.24	.00	36,465.24	06/22/2023
Total 1733:						37,875.24	.00	37,875.24	
1759	MANDT SANDFILL TRUC	051923	SPOILS	1	05/19/2023	195.00	.00	195.00	06/22/2023
		051923	MATERIALS	2	05/19/2023	196.46	.00	196.46	06/22/2023
		051923	MATERIALS	3	05/19/2023	196.46	.00	196.46	06/22/2023
		051923	MATERIALS	4	05/19/2023	196.46	.00	196.46	06/22/2023
		051923	MATERIALS	5	05/19/2023	720.32	.00	720.32	06/22/2023
Total 1759:						1,504.70	.00	1,504.70	
1921	FRONTIER	052223	LIBRARY PHONE	1	05/22/2023	112.07	.00	112.07	06/16/2023
Total 1921:						112.07	.00	112.07	
1989	CORPORATE BUSINESS	34210126	ADMIN COPIERS	1	06/06/2023	190.00	.00	190.00	06/16/2023
Total 1989:						190.00	.00	190.00	
2058	MICROMARKETING LLC	923980	AUDIO BOOKS	1	05/31/2023	210.47	.00	210.47	06/22/2023
		924183	AUDIO BOOKS	1	06/06/2023	45.00	.00	45.00	06/22/2023
Total 2058:						255.47	.00	255.47	
2089	MIDWEST METER INC	0156550-IN	METER GASKETS	1	06/14/2023	43.06	.00	43.06	06/22/2023
Total 2089:						43.06	.00	43.06	
2121	LAKESIDE INTERNATION	8270938P	VEHICLE MAINTENANCE	1	06/13/2023	101.24	.00	101.24	06/22/2023
		8270938P	VEHICLE MAINTENANCE	2	06/13/2023	27.61	.00	27.61	06/22/2023
		8270938P	VEHICLE MAINTENANCE	3	06/13/2023	27.61	.00	27.61	06/22/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
		8270938P	VEHICLE MAINTENANCE	4	06/13/2023	27.61	.00	27.61	06/22/2023
Total 2121:						184.07	.00	184.07	
2144	MCKAY, JIM	040522	ELECTION INSPECTOR	1	04/05/2022	44.00	.00	44.00	Multiple
Total 2144:						44.00	.00	44.00	
2215	WINTER EQUIPMENT CO	IV50994	UNIVERSAL GUARD TRK	1	02/07/2022	183.36	.00	.00	Multiple
		IV50994	UNIVERSAL GUARD TRK	2	02/07/2022	50.01	.00	.00	Multiple
		IV50994	UNIVERSAL GUARD TRK	3	02/07/2022	50.01	.00	.00	Multiple
		IV50994	UNIVERSAL GUARD TRK	4	02/07/2022	50.01	.00	.00	Multiple
		IV50994	UNIVERSAL GUARD TRK	5	02/07/2022	183.36-			
		IV50994	UNIVERSAL GUARD TRK	6	02/07/2022	50.01-			
		IV50994	UNIVERSAL GUARD TRK	7	02/07/2022	50.01-			
		IV50994	UNIVERSAL GUARD TRK	8	02/07/2022	50.01-			
Total 2215:						.00	.00	.00	
2237	MADISON COLLEGE	183922	PRACTICAL EXAM FIREFI	1	06/20/2023	80.00	.00	80.00	06/22/2023
Total 2237:						80.00	.00	80.00	
2245	CGC, INC	65446	PSC - CONSULTATION	1	06/20/2023	8,240.70	.00	8,240.70	06/22/2023
Total 2245:						8,240.70	.00	8,240.70	
2270	UNITY POINT HEALTH	060523	BLOODWORK	1	06/05/2023	349.52	.00	349.52	06/22/2023
Total 2270:						349.52	.00	349.52	
16234	GALLS, LLC	024685565	GALLS BOOTS	1	06/02/2023	197.59	.00	197.59	06/22/2023
Total 16234:						197.59	.00	197.59	
16238	PUBLIC HEALTH MADISO	042823	2021 DELINQUENT SEPTI	1	04/28/2023	9.54	.00	9.54	06/22/2023
Total 16238:						9.54	.00	9.54	
16247	CITY TREASURER	595525	STORM WATER CHARGE	1	06/07/2023	28.68	.00	28.68	06/22/2023
Total 16247:						28.68	.00	28.68	
16257	CORPORATE BUSINESS	341980	PW COLOR COPY OVER	1	06/13/2023	14.58	.00	14.58	06/16/2023
		341980	PW COLOR COPY OVER	2	06/13/2023	14.58	.00	14.58	06/16/2023
		341980	PW COLOR COPY OVER	3	06/13/2023	14.58	.00	14.58	06/16/2023
		341980	PW COLOR COPY OVER	4	06/13/2023	53.43	.00	53.43	06/16/2023
		342131	ADMIN COPY CHARGES	1	06/16/2023	437.09	.00	437.09	06/22/2023
		342131	SOS COPY CHARGES	2	06/16/2023	87.40	.00	87.40	06/22/2023
		342131	CD COPY CHARGES	3	06/16/2023	87.42	.00	87.42	06/22/2023
		342131	UTIL - STW COPY CHAR	4	06/16/2023	87.42	.00	87.42	06/22/2023
		342131	UTIL - SW COPY CHARG	5	06/16/2023	87.42	.00	87.42	06/22/2023
		342131	UTIL - WATER COPY CHA	6	06/16/2023	87.42	.00	87.42	06/22/2023
Total 16257:						971.34	.00	971.34	
16296	DANE CO DEPT OF HUM	JUNE2023	MEALSITE DONATION - C	1	06/16/2023	998.50	.00	998.50	06/22/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
		JUNE2023	MEALSITE DONATION - M	2	06/16/2023	3,303.00	.00	3,303.00	06/22/2023
Total 16296:						4,301.50	.00	4,301.50	
16332	SPEEDWAY SAND & GRA	060123	2023 STREET & UTIL IMP	1	06/01/2023	215,487.00	.00	215,487.00	06/22/2023
Total 16332:						215,487.00	.00	215,487.00	
16356	HOYOS CONSULTING	22705	WIRELESS CONNECTION	1	06/01/2023	11,605.00	.00	11,605.00	06/22/2023
		22706	FIREWALL - PSC	1	06/01/2023	14,767.00	.00	14,767.00	06/22/2023
Total 16356:						26,372.00	.00	26,372.00	
16489	ZIETSMA, JOEL	JZ052323	CONFERENCE MEALS	1	05/23/2023	33.26	.00	33.26	06/22/2023
Total 16489:						33.26	.00	33.26	
16614	ARCHIVESOCIAL, LLC	28165	ARCHIVESOCIAL	1	06/16/2023	4,188.00	.00	4,188.00	06/22/2023
Total 16614:						4,188.00	.00	4,188.00	
16645	REITER, TOM	TR051823	MEAL REIMBURSEMENT	1	05/18/2023	10.00	.00	10.00	06/22/2023
Total 16645:						10.00	.00	10.00	
16799	VERONA SAFETY SUPPL	79151	PW UNIFORMS	1	06/14/2023	377.20	.00	377.20	06/22/2023
Total 16799:						377.20	.00	377.20	
16921	AVANT GARDENING & LA	20230475	LANDSCAPE MAINTENA	1	06/12/2023	521.38	.00	521.38	06/22/2023
Total 16921:						521.38	.00	521.38	
17001	STATZ-PAYNTER, JAMIE	102	ADULT PROGRAMS	1	06/12/2023	84.00	.00	84.00	06/22/2023
Total 17001:						84.00	.00	84.00	
17084	AMAZON CAPITAL SERVI	11DM-L476-	LIBRARY SUPPLIES	1	06/10/2023	158.26	.00	158.26	06/22/2023
		1CJK-HHCC-	DVDS & CDS	1	06/12/2023	47.65	.00	47.65	06/22/2023
		1FMG-F9WQ	CDS & DVDS	1	06/13/2023	.04-	.00	.04-	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	1	06/16/2023	17.02	.00	17.02	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	2	06/16/2023	4.65	.00	4.65	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	3	06/16/2023	4.65	.00	4.65	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	4	06/16/2023	4.65	.00	4.65	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	1	06/17/2023	2.55	.00	2.55	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	2	06/17/2023	2.55	.00	2.55	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	3	06/17/2023	2.55	.00	2.55	06/22/2023
		1FXV-6KTG-	PW SUPPLIES	4	06/17/2023	9.32	.00	9.32	06/22/2023
		1J4J-L71C-H	PARKS SUPPLIES	1	06/18/2023	29.97	.00	29.97	06/22/2023
		1MLL-L4HP-	CUSTODIAL SUPPLIES P	1	06/19/2023	71.17	.00	71.17	06/22/2023
		1MLL-L4HP-	MC CUSTODIAL SUPPLIE	2	06/19/2023	35.59	.00	35.59	06/22/2023
		1N9Y-6T9Q-	PROGRAM SUPPLIES	1	06/07/2023	105.93	.00	105.93	06/22/2023
		1NKN-79VW-	PW SUPPLIES	1	06/13/2023	10.84	.00	10.84	06/22/2023
		1NKN-79VW-	PW SUPPLIES	2	06/13/2023	2.96	.00	2.96	06/22/2023
		1NKN-79VW-	PW SUPPLIES	3	06/13/2023	2.96	.00	2.96	06/22/2023
		1NKN-79VW-	PW SUPPLIES	4	06/13/2023	2.96	.00	2.96	06/22/2023
		1QRV-9PNG-	PROGRAM SUPPLIES	1	06/11/2023	51.58	.00	51.58	06/22/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
		1WDJ-CTY6-	DVDS & CDS	1	06/12/2023	19.96	.00	19.96	06/22/2023
		1XWL-97GT-	DVDS & CDS	1	06/13/2023	44.28	.00	44.28	06/22/2023
Total 17084:						632.01	.00	632.01	
17092	GENERAL ENGINEERING	52	BUILDING INSPECTION S	1	06/07/2023	7,352.43	.00	7,352.43	06/22/2023
Total 17092:						7,352.43	.00	7,352.43	
17134	CORE & MAIN	T025565	HYDRANT PARTS	1	06/13/2023	95.00	.00	95.00	06/22/2023
		T061846	WATER SERVICE REPAIR	1	06/21/2023	2,464.74	.00	2,464.74	06/22/2023
		T079097	WATER SERVICE REPAIR	1	06/21/2023	578.54	.00	578.54	06/22/2023
		T079388	WATER SERVICE REPAIR	1	06/21/2023	279.93	.00	279.93	06/22/2023
Total 17134:						3,418.21	.00	3,418.21	
17157	MCMASTER-CARR	99790699	EQUIPMENT MAINTENAN	1	06/20/2023	304.18	.00	304.18	06/22/2023
Total 17157:						304.18	.00	304.18	
17241	COVERTTRACK GROUP I	INVCT00236	ESOPRO LIGHTSENSOR	1	06/09/2023	20.00	.00	20.00	06/22/2023
Total 17241:						20.00	.00	20.00	
17329	HEATON-AMRHEIN, JENN	022123	CHIEF INSPECTOR	1	02/21/2023	75.00	.00	.00	Multiple
		022123	CHIEF INSPECTOR	2	02/21/2023	75.00-			
Total 17329:						.00	.00	.00	
17569	MCFARLAND ACE HARD	008704/1	5802 MAIN STREET	1	05/25/2023	22.25	.00	22.25	06/22/2023
		008767/1	DIRT	1	05/31/2023	4.49	.00	4.49	06/22/2023
		008854/T	PARK SUPPLIES RETUR	1	06/08/2023	23.39-	.00	23.39-	06/22/2023
		008859/T	PW SUPPLIES	1	06/08/2023	8.89	.00	8.89	06/22/2023
		008859/T	PW SUPPLIES	2	06/08/2023	2.43	.00	2.43	06/22/2023
		008859/T	PW SUPPLIES	3	06/08/2023	2.43	.00	2.43	06/22/2023
		008859/T	PW SUPPLIES	4	06/08/2023	2.43	.00	2.43	06/22/2023
		008865/T	MC FACILITY MAINTENA	1	06/09/2023	4.49	.00	4.49	06/22/2023
		008880/T	VELCRO	1	06/12/2023	21.59	.00	21.59	06/22/2023
		008881/T	HVAC FILTERS	1	06/12/2023	216.00	.00	216.00	06/22/2023
		008898/T	TRUEFUEL & MISC FAST	1	06/14/2023	26.74	.00	26.74	06/22/2023
		008905/T	PW SUPPLIES	1	06/15/2023	19.00	.00	19.00	06/22/2023
		008907/T	PW SUPPLIES	1	06/15/2023	5.40	.00	5.40	06/22/2023
		008907/T	PW SUPPLIES	2	06/15/2023	5.40	.00	5.40	06/22/2023
		008907/T	PW SUPPLIES	3	06/15/2023	5.40	.00	5.40	06/22/2023
		008907/T	PW SUPPLIES	4	06/15/2023	19.79	.00	19.79	06/22/2023
		008913/T	PW SUPPLIES	1	06/15/2023	1.13	.00	1.13	06/22/2023
		008913/T	PW SUPPLIES	2	06/15/2023	1.13	.00	1.13	06/22/2023
		008913/T	PW SUPPLIES	3	06/15/2023	1.13	.00	1.13	06/22/2023
		008913/T	PW SUPPLIES	4	06/15/2023	4.14	.00	4.14	06/22/2023
		008915/T	PARK SUPPLIES	1	06/15/2023	23.99	.00	23.99	06/22/2023
		008954/T	BROOM	1	06/20/2023	14.99	.00	14.99	06/22/2023
		8921/T	PW SUPPLIES	1	06/16/2023	2.10	.00	2.10	06/22/2023
		8921/T	PW SUPPLIES	2	06/16/2023	2.10	.00	2.10	06/22/2023
		8921/T	PW SUPPLIES	3	06/16/2023	2.10	.00	2.10	06/22/2023
		8921/T	PW SUPPLIES	4	06/16/2023	7.69	.00	7.69	06/22/2023
		8971/T	PW SUPPLIES	1	06/22/2023	9.89	.00	9.89	06/22/2023
		8971/T	PW SUPPLIES	2	06/22/2023	2.69	.00	2.69	06/22/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
		8971/T	PW SUPPLIES	3	06/22/2023	2.69	.00	2.69	06/22/2023
		8971/T	PW SUPPLIES	4	06/22/2023	2.69	.00	2.69	06/22/2023
Total 17569:						421.80	.00	421.80	
17685	INGRAM LIBRARY SERVI	62929322	BOOKS	1	05/21/2023	252.01	.00	252.01	06/22/2023
		62930812	BOOKS	1	05/24/2023	218.14	.00	218.14	06/22/2023
		62932773	BOOKS	1	05/31/2023	504.76	.00	504.76	06/22/2023
		62934959	BOOKS	1	06/06/2023	269.18	.00	269.18	06/22/2023
		62936439	BOOKS	1	06/12/2023	239.41	.00	239.41	06/22/2023
		62936951	BOOKS	1	06/13/2023	369.46	.00	369.46	06/22/2023
		67614128	BOOKS	1	06/09/2023	414.93	.00	414.93	06/22/2023
Total 17685:						2,267.89	.00	2,267.89	
17747	POSTAL SOURCE, INC	60410	POSTAGE METER SUPPL	1	06/07/2023	309.95	.00	309.95	06/16/2023
Total 17747:						309.95	.00	309.95	
17845	DANE COUNTY TREASU	43606	MEDICAL SUPPLIES	1	06/02/2023	18.98	.00	18.98	06/22/2023
		43742	MEDICAL SUPPLIES	1	06/21/2023	205.65	.00	205.65	06/22/2023
Total 17845:						224.63	.00	224.63	
17869	WALLACE, DAWN	DW061323	PROGRAM SUPPLIES	1	06/13/2023	72.24	.00	72.24	06/22/2023
Total 17869:						72.24	.00	72.24	
17881	MACQUEEN EMERGENC	P16591	ANNUAL HURST	1	06/16/2023	1,265.00	.00	1,265.00	06/22/2023
Total 17881:						1,265.00	.00	1,265.00	
17909	SHORT ELLIOTT HENDRI	447259	MUNICIPAL CENTER MAS	1	06/09/2023	12,000.00	.00	12,000.00	06/22/2023
Total 17909:						12,000.00	.00	12,000.00	
17947	SMARTSHEET	INV1359823	BRANDFOLDER	1	06/10/2023	2,500.00	.00	2,500.00	06/22/2023
Total 17947:						2,500.00	.00	2,500.00	
17968	KELLER, DAWSON	DK080822	MEAL REIMBURSEMENT	1	08/08/2022	12.00	.00	12.00	Multiple
Total 17968:						12.00	.00	12.00	
17997	SAM'S WELL DRILLING IN	60486	COMMUNITY PARK WELL	1	06/16/2023	34,270.00	.00	34,270.00	06/22/2023
Total 17997:						34,270.00	.00	34,270.00	
18068	SIMPLE NETWORK CON	29490	COURT	1	03/01/2023	210.60	.00	210.60	06/09/2023
		29490	GEN ADMIN	2	03/01/2023	4,710.15	.00	4,710.15	06/09/2023
		29490	POLICE	3	03/01/2023	2,165.65	.00	2,165.65	06/09/2023
		29490	FIRE/EMS	4	03/01/2023	923.12	.00	923.12	06/09/2023
		29490	OUTREACH	5	03/01/2023	281.04	.00	281.04	06/09/2023
		29490	COMM DEV	6	03/01/2023	210.60	.00	210.60	06/09/2023
		29490	PUBLIC WORKS	7	03/01/2023	287.18	.00	287.18	06/09/2023
		29490	WATER	8	03/01/2023	1,546.70	.00	1,546.70	06/09/2023
		29490	SEWER	9	03/01/2023	1,547.55	.00	1,547.55	06/09/2023

Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Issue Date
		29490	STORMWATER	10	03/01/2023	1,547.25	.00	1,547.25	06/09/2023
		29490	EMMGT	11	03/01/2023	70.20	.00	70.20	06/09/2023
		29490	FAMILY FESTIVAL	12	03/01/2023	70.20	.00	70.20	06/09/2023
		29490	SW ALLOCATION	13	03/01/2023	429.76	.00	429.76	06/09/2023
		29948	REPLACEMENT MONITO	1	06/19/2023	187.00	.00	187.00	06/22/2023
		29948	REPLACEMENT MONITO	2	06/19/2023	51.00	.00	51.00	06/22/2023
		29948	REPLACEMENT MONITO	3	06/19/2023	51.00	.00	51.00	06/22/2023
		29948	REPLACEMENT MONITO	4	06/19/2023	51.00	.00	51.00	06/22/2023
Total 18068:						14,340.00	.00	14,340.00	
18120	COMMERCIAL RECREATI	0021753	BOCCE BALL COURT SH	1	06/15/2023	14,230.00	.00	14,230.00	06/22/2023
Total 18120:						14,230.00	.00	14,230.00	
18122	HORIZON TREE SERVICE	052623	REMOVE ASH & BOXELD	1	05/26/2023	4,050.00	.00	4,050.00	06/22/2023
Total 18122:						4,050.00	.00	4,050.00	
18175	BUCKY'S DUMPSTERS &	92792	PORTABLE RESTROOMS	1	06/02/2023	48.21	.00	48.21	06/22/2023
		92793	PORTABLE RESTROOMS	1	06/02/2023	48.21	.00	48.21	06/22/2023
		92794	PORTABLE RESTROOMS	1	06/02/2023	48.21	.00	48.21	06/22/2023
		92795	PORTABLE RESTROOMS	1	06/02/2023	48.21	.00	48.21	06/22/2023
Total 18175:						192.84	.00	192.84	
18185	HELMING, DAVID	061323	REFUND OVERPAYMENT	1	06/13/2023	322.02	.00	322.02	06/22/2023
Total 18185:						322.02	.00	322.02	
18201	JOHNSON, LINDSEY	LJ052523	MEAL AND MILEAGE - TR	1	05/25/2023	56.13	.00	56.13	06/22/2023
Total 18201:						56.13	.00	56.13	
18202	MCINTOSH, DAWN	061323	REFUND OVERPAYMENT	1	06/13/2023	41.76	.00	41.76	06/22/2023
Total 18202:						41.76	.00	41.76	
18203	ZENITH ENERGY TERMIN	061323	REFUND OVERPAYMENT	1	06/13/2023	641.16	.00	641.16	06/22/2023
Total 18203:						641.16	.00	641.16	
18204	AKOSAH, STEPHAN	061323	REFUND OVERPAYMENT	1	06/13/2023	114.25	.00	114.25	06/22/2023
Total 18204:						114.25	.00	114.25	
Grand Totals:						430,062.14	.00	430,062.14	

Report Criteria:
Detail report type printed

VILLAGE OF MCFARLAND

Check Register

Pay Period Dates: 06/04/2023 - 06/17/2023

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Pay Period Date	Journal Code	Check Issue Date	Check Number	Payee	Payee ID	Amount
06/17/2023	PC	[redacted]	85070	BELL, KEEGAN	401	594.83
06/17/2023	PC	[redacted]	85071	EBBERT, CALEB	402	1,067.67
06/17/2023	PC	[redacted]	85072	KNOPLOH, DANIEL	403	595.37
06/17/2023	PC	[redacted]	85073	BEAULIEU, JACOB	879	181.05
06/17/2023	PC	[redacted]	85074	HUNTLEY, KATIE	4071	230.65
06/17/2023	PC	[redacted]	85075	SAM, CAROL	4072	152.89
06/17/2023	CDPT	[redacted]	85076	FIRE FIGHTERS LOCAL 31	8	174.77

PAYROLL RELATED $2,997.23

Board, Committee, Commission Application

First Name	Meredith
Last Name	Hughey
E-mail Address	[redacted]
Phone Number	[redacted]
Address	[redacted]
City	McFarland
State	WI
Zip Code	53558
Job/Profession	I am currently an EHR Ambulatory Solution Architect at The University of Kansas Health System. I am also a Registered Nurse.
Education	BSN from the University of Kansas, 2010. BA in Sociology from Grinnell College (IA), 2007.

What Board, Committee, or Commission are you interested in being appointed to?	• Public Safety Committee
Have you attended or watched a meeting of the Board, Committee, or Commission that you selected above?	No

If no, please do so prior to completing this application.

Why are you interested in serving?	I am new to the McFarland Community - recently moving from across Siggelkow in the Quinn Ranch neighborhood. Our family (my wife and 2 young children) moved to be inside the city limits of McFarland to further engage with all that the community offers (schools, fellowship, growth, etc). I would like to use my medical experience and civic dedication in our new found village to help guide change and support growth in a safe way in our community.

What else would you like to tell us about yourself and/or your interest in serving on the Board, Committee, or Commission that you selected above?	I recently was a vocal opponent to a proposition to house a temporary batch concrete plant at Kampmeier Quarry and found that experience to be rewarding and wish to contribute my voice in local matters of safety. I realize I have not yet attending such a meeting in my tenure in the community (moved in April), but I hope that does not preclude me from consideration.

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Consent Agenda**

DEPARTMENT: **Administration**

CONTACT: **Cassandra Suettinger, Deputy Administrator/Clerk**

AGENDA ITEM: **Motion to approve Resolution 2023-13: A Resolution approving the renewal of applications for liquor and fermented malt beverage licenses for 2023-2024.**

PREVIOUS ACTION:

ISSUE SUMMARY:
Attached is Resolution 2023-13: a resolution approving the renewal of applications for liquor and fermented malt beverages licenses for the period of July 1, 2023 through June 30, 2024. Compliance checks have been performed by the Fire & Rescue, Community Development and Police Department, with no issues identified.

FINANCIAL/BUDGET IMPACT:
Revenue of approximately $12,000

VILLAGE PLAN REFERENCE:
N/A

ORDINANCE REFERENCE:
Chapter 11 - Article II - Village Code of Ordinances regarding alcohol beverage licensing

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Recommended for approval.

ATTACHMENTS:
1. 2023-13 Resolution Approving the Renewal Applications for Liquor and Fermented Malt Beverage Applications

RESOLUTION 2023-13

A RESOLUTION APPROVING THE RENEWAL OF APPLICATIONS FOR LIQUOR AND FERMENTED MALT BEVERAGE LICENSES FOR 2023-2024

WHEREAS, on Tuesday June 27, 2023, the Village Board met to consider the following applications for renewal of Liquor and Fermented Malt Beverage licenses for 2023-2024.

Class "A"/"Class A" (Combination Class A)

LEGAL NAME	D/B/A	ADDRESS	AGENT
Ameer Investment Inc	WI0102 Burma	4701 Burma Rd	Tammy Downing

Class "B"/"Class B" (Combination Class B)

LEGAL NAME	D/B/A	ADDRESS	AGENT
Edwards-Foye Post No. 534 of the American Legion	American Legion Post 534	4911 Burma Rd	Nathaniel Weier

Class "A" Beer

LEGAL NAME	D/B/A	ADDRESS	AGENT
The Madison Curling Club	The Madison Curling Club	4802 Marsh Rd	Douglas Pahl

Class "B" Beer and Cider

LEGAL NAME	D/B/A	ADDRESS	AGENT
Ameer Investment Inc	WI0100 Larson Beach	4800 Larson Beach Rd	Bayarmaa Wey

WHEREAS, all of the establishments have had the necessary reviews, background investigations of applicants, and inspections of premises as required by Municipal Code and State Statutes; and

WHEREAS, after review and consideration, it is recommended that the Village approve the Alcohol Beverage renewals; and

WHEREAS, all establishments are current on all fees, taxes, and/or invoices.

NOW THEREFORE, BE IT RESOLVED, that the Village Board of the Village of McFarland, Dane County, Wisconsin, hereby approves the renewal of applications for liquor and fermented malt beverage licenses for the period of July 1, 2023 through June 30, 2024 for all premise descriptions previously approved.

Approved:

_____

Carolyn A. Clow, Village President

Attest: _____
Cassandra Suettinger, Clerk/Treasurer

RESOLUTION 2023-13	
MOTION	SECOND
ACTION	DATE
Adopted	
Referred	
Tabled	
Withdrawn	
Defeated	
Published	
INDIVIDUAL VOTING RECORD	
Brandt –	Fessler –
Brassington –	Jerke –
Clow –	Wreh –
Flaherty -	
VOTING RESULTS	
Motion Carried:	
Motion Defeated:	

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Public Works**

CONTACT: **Sayer Larson, Parks Superintendent**

AGENDA ITEM: **Motion to approve the final conservancy management plan as created by Resource Environmental Solutions, LLC (RES) as recommended by the Sustainability and Natural Resource Committee.**

PREVIOUS ACTION:
The former Parks Recreation & Natural Resources Committee recommended approval to the Village Board for issuance of an RFP for a Management Plan for Conservancy Areas at their January 27, 2022 meeting.

The Village Board approved the issuance of an RFP at their February 14, 2022 meeting.

The Sustainability & Natural Resources Committee recommended the award of a contract to RES Great Lakes, LLC at their May 9, 2022 meeting.

The Village Board made the award of contract at their May 24, 2022 meeting.

The draft management plan was presented to Sustainability and Natural Resources Committee at their February 13, 2023 meeting.

The Sustainability and Natural Resources Committee recommended approval of the presented final conservancy management plan at their June 12, 2023 meeting.

ISSUE SUMMARY:
RES Great Lakes, LLC was selected to conduct management planning services related to conservancy areas within the Village in 2022. The project scope included items such as:

• Conduct an analysis of the project areas to identify key issues, opportunities, and possible improvements.
• Provide site inventories along with reviewing various property records and reports.
• Create management units within each property with a stepped management approach
• Providing cost/labor estimates for each site.
• Conduct public input activities and compile that information.
• Compile a final report and present it to various committee(s) and the Village Board.

Matt Parsons, ecologist with RES Great Lakes, will present an overview of spring plant surveys findings and discuss the impact on the management plan. The final management plan is

attached, along with appendices.

Progress tracking:

Task Description	Target Date/Completion
Kick-off Meeting	Completed
Data Gathering	Completed
Summer 2022 Field Survey	Completed
Progress Meeting	Completed
Guided Field Tours	Completed
Progress Meeting	Completed
Draft CMP Submittal – Staff Review	Completed
Draft CMP Presentation	Completed
Stakeholder Engagement Meetings	Completed
Spring 2023 Field Survey	Completed
Final CMP Submittal – Staff Review	Completed
Final CMP - Approval SNR	June SNR Committee
Village Board Approval	June 27, 2023.

Notable changes to the final plan include:

- Language pertaining to burial mounds (eg. Indian mounds to Native American mounds). Not all terms were able to change as they're either the name of a property or the name of a document.
- Timelines in text and charts have been converted from dates to successive yearly steps. This will provide flexibility in prioritizing management units. There are many factors that occur annually that can have an impact on direction, such as: resident input, budget, environmental factors, safety hazards, etc.
- Recommended water level manipulation was removed at Grand View Conservancy and Urso Park. These were recommendations proposed to restore historic hydrology at the properties. Adjacent homeowners raised concerns during the PIM for Grand View Conservancy due to raised water tables already present. This is an example of adaptive restoration to establish a native plant community not historically at the given location.

The Village conducted stake holder meetings on March 2 and 9, 2023. Letters to adjacent property owners were mailed two weeks prior to the correlating property meeting. Additional public notification was placed on Village social media platforms. Conservancy properties were divided between the two meetings. These meetings provided opportunities for residents to learn, ask questions and give feedback about the draft management plan. The draft plan was made available prior to the stake holder meetings. The meeting provided an educational overview of ecological restoration. This was followed by looking at the highlights of restoration activities at each property with discussions.

VILLAGE OF
McFarland

FINANCIAL/BUDGET IMPACT:
The approved budget for this item was $75,000 and funded through the Parks Budget in the Capital Projects Fund. The cost of the contracted services provided by RES Great Lakes, LLC was $48,180.

VILLAGE PLAN REFERENCE:
None.

ORDINANCE REFERENCE:
None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Recommended action:

Motion, second, to approve the final conservancy management plan created by Resource Environmental Solutions, LLC as presented.

ATTACHMENTS:
1. McFarland_CMP_Final_20230607
2. Appendix_A_Figures
3. Appendix_D1_Cover_Data_Summer2022
4. Appendix_D2_Cover_Data_Spring2023
5. Appendix_E1_Summer_2022_FQA_Data
6. Appendix_E2_Spring_2023_FQA_Data

Village of McFarland

Final Conservancy Management Plan

PRJ106368 | June 7, 2023

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Acronyms and Abbreviations

CMP	Conservancy Management Plan
CE	Common Era
DCiMap	Dane County Interactive Map
DBH	Diameter at Breast Height
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FQA	Floristic Quality Assessment
GPS	Global Positioning System
HUC	Hydrologic Unit Code
IPM	Integrated Pest Management
MU	Management Unit
NOI	Notice of Intent
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
OPC	Opinion of Probable Costs
PLS	Pure Live Seed
PP	Photo-documentation Point
RES	Resource Environmental Solutions, LLC
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture
Village	Village of McFarland
WDNR	Wisconsin Department of Natural Resources
*w*FQI	Weighted Floristic Quality Index
WHAIFinder	Wisconsin Historic Aerial Imagery Finder
*w*Mean C	Weighted Mean Coefficient of Conservatism
WNHI	Wisconsin Natural Heritage Inventory
WWI	Wisconsin Wetland Inventory

Executive Summary

Introduction

The Village of McFarland (Village), located southeast of the City of Madison in southeast Dane County, Wisconsin, owns and manages several parks and conservancies located throughout the municipality. These conservancies contain important cultural and natural resources and require ongoing ecological restoration and vegetation maintenance to maintain or improve their ecological health. Babcock Conservancy, Grand View Conservancy, Indian Mound Conservancy (including the School Forest parcel), Marsh Woods Conservancy, Siggelkow Road Park, Taylor Road Conservancy, Thrun Marsh Conservancy, Urso Park, Woodland Commons Conservancy, and Yahara River Conservancy are the subject of this Conservancy Management Plan (CMP). The CMP characterizes the historical and existing conditions of each conservancy, provides restoration and management prescriptions to improve their ecological condition with associated cost and labor estimates, and recommends performance metrics to track management effectiveness.

Baseline Assessment

Resource Environmental Solutions, LLC (RES) conducted vegetation meander surveys in summer 2022 and spring 2023 throughout delineated Management Units (MUs) of each conservancy. RES determined plant species abundance and plant community quality for each MU. The total number of plant species identified ranged from 40 at Yahara River Conservancy to 164 at Indian Mound/Thrun Marsh Conservancies in summer 2022. The total number of plant species ranged from 24 species at Yahara River Conservancy to 96 species at Grand View Conservancy in spring 2023.

Native absolute percent cover, which can exceed 100% when the canopy of different vegetation canopy layers overlap, was highest in the dry-mesic forest of Indian Mound Conservancy (215%) and was lowest in the emergent marsh portions of Grandview Conservancy (32%) in summer 2022. Native absolute percent cover was highest in the mesic forest of Babcock Conservancy (227%) and was lowest in the emergent marsh portions of Grandview Conservancy (5%) in spring 2023. Non-native, invasive absolute cover was highest in the wetland portions of Babcock Conservancy and emergent marsh portions of Grand View Conservancy (77%) and lowest in the mesic forest portion of Babcock Conservancy (0%) in summer 2022. Invasive cover was highest in the wet meadow portion of Grand View Conservancy (59%) and lowest in the mesic forest portion of Babcock Conservancy (0%) in spring 2023.

In summer 2022, *w*Mean C (a measure of floristic quality) was lowest in the mesic forest in the southern portion of Grand View Conservancy (0.6) and highest in the mesic forest portion of Babcock Conservancy (4.6). In spring 2023, *w*Mean C was lowest in the mesic forest in the southern portion of Grand View Conservancy (0.3) and highest in the mesic forest of Babcock Conservancy (5.4).

RES located and mapped one sensitive plant species during the summer of 2022: obovate beak grain (*Diarrhena obovata*, State Endangered). Invasive species such as common buckthorn (*Rhamnus cathartica*), Tartarian honeysuckle (*Lonicera tatarica*), white mulberry (*Morus alba*), Canada thistle (*Cirsium arvense*), narrow-leaved cattail (*Typha angustifolia*), and reed canary grass (*Phalaris arundinacea*) are prevalent at Village conservancies.

Management Recommendations

The following is a summary of management recommendations discussed in more detail in the body of the CMP:

- Control large populations of woody and herbaceous invasive species via a combination of mechanical and chemical means. This includes forestry mowing large and dense populations of woody invasive shrubs, brushcutting smaller and scattered populations of woody invasive shrubs, broadcast spraying large populations of herbaceous invasive species and spot-spraying smaller populations, and introducing a prescribed fire regime for short- and long-term vegetation management.
- Utilize trees that have been cut down or girdled as habitat enhancement features.
- Restore, enhance, expand, and connect a variety of habitats/cover types including oak woodland, southern dry-mesic forest, southern mesic forest, southern hardwood swamp, floodplain forest, shrub-carr, emergent marsh, southern sedge meadow, wet prairie, wet-mesic prairie, and dry-mesic prairie through native seed and plant installation.
- Consider stream restoration and wetland scrapes at appropriate locations.
- Repair the severe erosion at Indian Mound/Thrun Marsh Conservancies.
- Resolve encroachment issues and encourage sustainable stormwater solutions and native landscaping practices on neighboring lands.

Introduction

Project Background and Location

The Village of McFarland (Village) is located southeast of the City of Madison in southeast Dane County, Wisconsin (Appendix A; Figure 1). The Village owns and manages several parks and conservancies located throughout the municipality. Ten of the conservancies/parks are the subject of this Conservancy Management Plan (CMP): Babcock Conservancy, Grand View Conservancy, Indian Mound Conservancy (including the School Forest parcel), Marsh Woods Conservancy, Siggelkow Road Park, Taylor Road Conservancy, Thrun Marsh Conservancy, Urso Park, Woodland Commons Conservancy, and Yahara River Conservancy. Several of these natural areas, including Indian Mound Conservancy, Siggelkow Park, Taylor Road Conservancy, and Woodland Commons Conservancy, contain prehistoric Native American mounds and are of critical historical and cultural importance. The Village is situated adjacent to a portion of the Yahara Chain of Lakes so several of the conservancies contain significant tracts of wetlands and other sensitive habitats. Therefore, continued restoration and maintenance of its natural assets is a vital component of realizing the Village's vision and mission.

The CMP characterizes the historical and existing conditions of each conservancy, provides restoration and management prescriptions to improve their ecological condition with associated cost and labor estimates, and recommends performance metrics to track management effectiveness.

Project Objectives

The following are the CMP objectives:

1. Protect and enhance current resources.
2. Provide historical context.
3. Characterize existing resources and evaluate their condition.
4. Address the long-term vision of the conservancies.
5. Identify environmental constraints, including those that originate from adjacent lands.
6. Collaborate with stakeholders, such as the Village and local residents, by garnering and incorporating their input.
7. Create a stepped management approach with timeline and opinion of probably costs and labor hours.
8. Develop measurable performance goals.

Study Methods

Resource Environmental Solutions, LLC (RES) conducted a baseline assessment of the conservancies to establish baseline ecological conditions in the context of historical land-use and to formulate a conceptual restoration plan that aims to improve these conditions. RES' methodological approach included existing data review, vegetation surveys, and vegetation mapping.

Existing Data Review

Existing data and reports reviewed prior to field work included the following:

- Glacial Geology of Dane County, Wisconsin (Mickelson & McCartney 1979)
- Urso Community Park Master Plan (Ken Saiki Design 2005)
- Management Plan for Conservancy Parks (JFNew 2007)
- Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010)
- Ecological Assessment and Management Plan – Marsh Woods Park (Taylor Conservation, LLC 2010a)
- Indian Mounds Vegetation Assessment (Taylor Conservation, LLC 2010b)
- Indian Mounds Conservation Park McFarland, WI - Trail Project Design Layout and Construction Recommendations (Yocum 2012)
- The Ecological Landscapes of Wisconsin (WDNR 2015a)
- Outdoor Recreation and Open Space Plan 2019-2023 (Village of McFarland 2019)
- Vegetation Management Use Policy (Village of McFarland 2020)
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Dane County
- Wisconsin Natural Heritage Inventory (WNHI) Natural Communities of Wisconsin
- Wisconsin Wetland Inventory (WWI)
- Dane County 1-foot topographic maps
- Wisconsin Historic Aerial Imagery Finder (WHAIFinder) 1937 Historical Aerial Imagery
- Dane County Interactive ArcGIS Web Application (DCiMap) Historical Aerial Imagery.

RES used existing information to gain a precursory understanding of the various conservancies, create preliminary vegetation and management unit maps, and to identify data gaps where additional information is needed to inform this CMP.

Vegetation Surveys

RES Ecologists performed a thorough baseline assessment of all native and non-native vegetative cover types at each conservancy to determine relative population levels and prescribe recommended control/treatments where appropriate. Surveys were conducted in summer 2022 (July 12, 19, and 20, 2022) and spring 2023 (April 25, 2023). As part of the baseline assessment, RES collected tree, sapling/shrub, herbaceous, and vine strata composition and percentages using weighted FQA methodology (Bernthal 2003). The tree layer was defined as the uppermost vegetative layer formed by mature tree crowns. Trees were defined as woody plants 3 inches or more in diameter at breast height (DBH). The shrub layer consisted of woody plants less than 3 inches in DBH. The herbaceous layer was defined as all non-woody plants and woody plants under 3.28 feet in height.

Each conservancy was divided into, and stratified by, preliminary management units (MU) which are areas of similar vegetation composition and structure. Preliminary MUs were delineated using air photo interpretation. The number and precise arrangement of MUs was refined based on field observations during the field assessments. RES performed meander species search surveys throughout the entirety of each MU and prepared comprehensive plant lists for each stratum (i.e., canopy, shrub, herbaceous, and vine) within each MU. Once the survey within a unit was complete, surveyors estimated the approximate absolute percent cover of each species in each stratum as well as the total absolute cover of each stratum.

These surveys documented species presence and abundance (i.e., absolute percent cover) and allowed for calculation of native, non-native, and invasive relative percent cover (i.e., proportion of total vegetative cover) for each MU. RES also determined plant community quality for each MU using Floristic Quality Assessment (FQA) which includes calculation of weighted Mean Coefficient of Conservatism (*w*Mean C) and weighted Floristic Quality Index (*w*FQI). FQA data were derived using the Wisconsin Department of Natural Resources' (WDNR) FQA Calculator.

Vegetation Mapping

During vegetation surveys, RES delineated and characterized dominant plant communities in accordance with land use history and the WNHI system. RES mapped significant populations of invasive species, especially those characterized as "Restricted" in Wisconsin Administrative Code NR 40, as well as reed canary grass (*Phalaris arundinacea*). RES also mapped rare species encountered. Where practical, plant community boundaries, invasive species populations, and rare plants were surveyed using Global Positioning System (GPS) receivers capable of sub-meter accuracy. However, large and/or discontinuous populations of invasive species were be mapped by hand using air photo interpretation techniques and verified using GPS.

Photo-documentation

RES established 54 permanent photo-documentation (PP) locations at representative locations throughout each conservancy. Photographs taken at these locations during this baseline assessment document pre-restoration baseline conditions and can be compared to repeat photographs taken from the same locations and orientations post-restoration. Photographs were also taken at other features of note including rare plants and notable invasive species. Photographs are presented in Appendix B.

Historical Conditions

Geology and Historical Ecology

McFarland is in the Dane-Jefferson Drumlins and Lakes Land Type Association which consists of an undulating complex of glacial till plains with drumlins, outwash plains, lake plains, and muck deposits (WDNR 2015a). Soils are predominantly well drained silt and loam over calcareous sandy loam till, loamy lacustrine, or gravelly sandy outwash. Conservancies located near Lake Waubesa and Mud Lake; such as Babcock Conservancy, Yahara River Conservancy, Marsh Woods Conservancy, Grand View Conservancy, Thrun Marsh Conservancy, and portions of Urso Park; occur on lacustrine plain geologic landforms (Mickelson & McCartney 1979). Whereas the inland conservancies such as Woodland Commons Conservancy, Taylor Road Conservancy, Siggelkow Road Park, Indian Mound Conservancy, and portions of Urso Park and Marsh Woods Conservancy; are located on drumlin and ground moraine geologic landforms.

The dominant historic vegetation communities in northern McFarland consisted of emergent marshes and sedge meadows in the lowlands and mesic forests dominated by sugar maple (*Acer saccharum*) and American basswood (*Tilia americana*) in the uplands (WDNR 2015a). Southern McFarland also contained emergent marshes and sedge meadows in the lowlands, but the dominant upland vegetation type shifted to oak woodland/oak forest dominated by bur oak (*Quercus macrocarpa*) and white oak (*Q. alba*). It does not appear that upland prairie was a dominant ecosystem type in the area immediately east of Lake Waubesa historically; however, oak opening/oak savanna did exist east of modern-day McFarland. There is also evidence that drumlins within the limits of the Village were historically composed of open-grown oak trees, indicating historic oak savannas and oak woodlands were likely common.

Historical Land Use

Conservancies such as Woodland Commons Conservancy, the western portion of Siggelkow Park, and Indian Mound Conservancy appear to have undergone little significant land alteration since the early 1930's relative to other conservancies (Figures 2a-c), with the exception of construction of the water tower at Indian Mound Conservancy. However, these areas are now surrounded by suburban development and the vegetative communities have shifted over time to closed canopy forest types with dense shrub invasion in the understories.

Taylor Road Conservancy is a drumlin currently composed of a red pine (*Pinus resinosa*) plantation, tree- and shrub-invaded surrogate grasslands, and a cut bank on the north end of the site. The west side of the conservancy was planted to red pine between 1968 and 1976. This area remained cleared as late as 1968 when construction of an apartment complex to the north had begun. The east slope was composed of sparse tree cover and possibly pastureland or savanna/prairie historically.

The southern portion of Grand View Conservancy historically consisted of a homestead, cropland or pastureland drained by a north-south oriented ditch, and potentially orchards. The northern portion of this conservancy was undeveloped historically likely due to the poorly drained soils in this area. With development of the surrounding neighborhoods came encroachment issues at this conservancy.

Review of DCiMap historical aerial imagery indicates the southern portion of Urso Park, which occurs on the slopes of ground moraine landforms, was historically composed of oak woodland and oak savanna. The western and northern sections were composed of agricultural fields and/or pasture. The fields in the north were drained by an east to west flowing agricultural ditch since at least 1937. The ditch is still present and functioning to drain the wetlands that have formed in this area since agricultural production ceased. A

farmstead was present in the northeast portion of the park that is currently a parking lot. Historical aerial imagery interpretation indicates orchards were planted in the western portion of the site between 1937 and 1955. The northern agricultural fields were taken out of production sometime between 1987 and 1995 and the structures associated with the farmstead in the northeast portion of the site were removed sometime between 2000 and 2005. The McFarland Dog Park was constructed in 2009 occupying the eastern boundary of Urso Park. The southern portion of the dog park was recently expanded. Additionally, a disc golf course was constructed throughout the woodlands in the southwestern portion of Urso Park in 2022.

Babcock, Yahara River, Thrun Marsh, and Marsh Woods Conservancies are comprised largely of existing wetlands which have been left mostly intact. The northeast portion of Marsh Woods Conservancy was historically in pasture and the southeastern oak woodland may have been grazed or logged in the past.

Cultural History

The Village of McFarland and surrounding areas have a rich cultural history. Several documents exist containing information on Native American mounds on the Village's properties (Village of McFarland 2010, Taylor Conservation, LLC 2010b, Yocum 2012). In brief, Indian Mound Conservancy, Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy, contain prehistoric Native American mounds (Village of McFarland 2010). A total of fourteen mounds are documented within the Village limits. The mounds were built by the people of the Effigy Mound Culture, Late Woodland Stage, from approximately 650-1200 Common Era (CE). Many mounds are burial grounds while other serve as man-made landmarks and are considered sacred sites by Native Americans. Agricultural and urban development has resulted in widespread destruction and loss of many of the mounds. The Village recognizes the historical and cultural value of the remaining mounds and has adopted policies to ensure their protection and preservation.

Per McFarland's Native American Mound Policy, Indian Mound Conservancy is listed on the National Register of Historic Places (NRHP) which means no ground disturbing activities are allowed anywhere within the conservancy. An NRHP database query also indicates that Siggelkow Road Park or portions thereof is listed as well. Any activities that might potentially cause ground disturbance on or near mounds in other conservancies requires prior approval from the Wisconsin Historical Society.

The Native American Mound Policy provides direction on vegetation management of the mounds, including removing all brush and non-native, invasive species growing on the mounds. Removing in phases, all trees except large, healthy, deep-rooted trees and establishing native ground cover on the mounds to protect against erosion. Maps and vegetation maintenance guidelines for all fourteen mounds within the four conservancies were established in the Indian Mounds Vegetation Assessment (Taylor Conservation, LLC 2010b). Guidelines include reducing forest canopy cover surrounding the mounds and restoring dense native soil stabilizing groundcover on the mounds and in the area surrounding the mounds.

Existing Conditions

Today, the Village's conservancies are highly fragmented compared to their historic condition due to agricultural and urban development. This has reduced habitat patch size and migration corridors for wildlife, increased invasive species colonization, degraded water quality, and altered nutrient cycles and hydrologic regimes. With these challenges also come opportunities, starting with the Village's and other organizations' commitment to acquiring and maintaining open spaces and natural areas. Additionally, the close proximity of residential neighborhoods to these natural areas provides residents the unique opportunity to have a direct impact on the Village's natural resources based on how they manage their own properties.

Babcock Conservancy

The approximately 7.82-acre Babcock Conservancy is located on the eastern shore of Lake Waubesa near the outlet to the Yahara River. It is surrounded on three sides by water, with Lake Waubesa to the west, Yahara River to the south, and a canal to the east. The conservancy's topography is relatively flat as it is situated mostly on a lacustrine plain landform (Figure 3a). The mesic forest portion of the conservancy to the northwest has some relief as it is located at the base of a drumlin. Elevations range from 845 feet along the water's edge in the southern and eastern portions of the site to 877 feet on a hillslope in the northwestern portion of the site.

Babcock Conservancy is comprised of three soil map units: Adrian muck, 0-2% slopes (Ad); Kidder loam, 12-20% slopes, eroded (KdD2); and Water (W) (Table 1) (Figure 4a).

Table 1. Babcock Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Ad – Adrian muck, 0-2% slopes	82%	Very poorly drained	100% Hydric	Depressions	Marsh, sedge meadow, shrub-carr
Kd – Kidder loam, 12-20% slopes, eroded	17%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
W – Water	1%	N/A	N/A	N/A	N/A

The Adrian soil series consists of very deep, very poorly drained soils formed in herbaceous organic materials over sandy deposits on outwash plains, lake plains, lake terraces, floodplains, moraines, and till plains. These soils formed under marsh, sedge meadows, or shrub-carr vegetation and are classified as hydric (soils that form under wet conditions).

The Kidder soil series consists of very deep, well drained soils formed in thin loess and in loamy till or just in loamy till on moraines and drumlins. These soils typically form under oak/hickory forest; however, historic vegetation mapping and the current vegetation community indicates historic vegetation in the area mapped as Kidder in the northwest portion of Babcock Conservancy was likely formed under southern mesic forest, and was dominated by tree species such as sugar maple and American basswood. Historic vegetation in the area mapped as Kidder in the southwest portion of the conservancy was likely floodplain forest/hardwood swamp and dominated by species such as eastern cottonwood (*Populus deltoides*) and silver maple (*Acer saccharinum*). Kidder loams are classified as non-hydric.

The conservancy is situated in the Lake Monona-Yahara River Hydrologic Unit Code (HUC) 10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is

influenced largely by surface water from Lake Waubesa and the Yahara River as well as runoff from the surrounding suburban developments.

Babcock Conservancy currently consists of approximately 4.50 acres of emergent marsh, 1.95 acres of southern hardwood swamp, 0.57 acres of southern mesic forest, 0.04 acres of lake, and 0.76 acres of hardscape (Figure 5a). RES did not conduct formal wetland delineations at this or any of the other conservancies; however, we estimate approximately 6.45 acres of wetlands are present onsite. Non-native invasive species such as narrow-leaved cattail (*Typha angustifolia*) and purple loosestrife (*Lythrum salicaria*) are prevalent at this conservancy. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

The emergent wetlands within Babcock Conservancy may be used by herptiles such as painted turtles (*Chrysemys picta*), snapping turtles (*Chelydra serpentina*), American toad (*Anaxyrus americanus*), American bullfrog *(Lithobates catesbeianus*), and spring peepers, *(Pseudacris crucifer*); birds such as marsh wren (*Cistothorus palustris*), great blue heron (*Ardea Herodias*), and swamp sparrow (*Melospiza georgiana*); and mammals such as muskrats (*Ondatra zibethicus*). Woodland species are likely urban species such as white-tailed deer (*Odocoileus virginianus*), raccoons (*Procyon lotor*), grey squirrel (*Sciurus carolinensis*), opossoms (*Didelphis virginiana*), rock pigeons (*Columba livia*), American robins (*Turdus migratorius*), black-capped chickadees (*Poecile atricapillus*), and mourning doves (*Zenaida macroura*). Potential bat species that may use the forested areas include northern-long eared bat (*Myotis septentrionalis*), little brown bat (*Myotis lucifugus*), and tri-colored bat (*Perimyotis subflavus*).

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Grand View Conservancy

The approximately 32.86-acre Grand View Conservancy is situated on a glacial lacustrine plain approximately 1,200 feet northeast of Mud Lake. The conservancy's topography is relatively flat with a slight valley landform, sloping upwards to the west and east from the center (Figure 3b). The mesic forest portions of the conservancy have some relief. Elevations range from 851 feet in the marsh bottom in the southern portion of the site to 864 feet on a hillslope in the northern portion of the site.

Grand View Conservancy is comprised of six soil map units: Dodge silt loam, 2-6% slopes (DnB); Elburn silt loam, gravelly substratum, 0-3% slopes (EgA); Hayfield silt loam, 0-3% slopes (HaA); Sable silty clay loam, 0-2% slopes (SaA); St. Charles silt loam, 2-6% slopes (ScB); and Virgil silt loam, gravelly substratum, 0-3% slopes (VwA) (Table 2) (Figure 4b).

Table 2. Grand View Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
DnB – Dodge silt loam, 2-6% slopes	6%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
EgA – Elburn silt loam, gravelly substratum, 0-3% slopes	20%	Somewhat poorly drained	10% Hydric	Till Plains	Prairie
HaA – Hayfield silt loam, 0-3% slopes	12%	Somewhat poorly drained	5% Hydric	Outwash Plains	Tallgrass prairie, oak savanna
SaA – Sable silty clay loam, 0-2% slopes	45%	Poorly drained	85% Hydric	Swales	Sedge meadow, wet prairie
ScB – St. Charles silt loam, 2-6% slopes	4%	Well drained	3% Hydric	Till Plains	Forest
VwA – Virgil silt loam, gravelly substratum, 0-3% slopes	13%	Somewhat poorly drained	10% Hydric	Drainageways on outwash plains	Prairie, savanna

The Dodge soil series consists of very deep well-drained soils formed in loess and in the underlying till on ground moraines, end moraines, and drumlins. These soils formed under sugar maple/American basswood and oak/hickory hardwood forest associations and are classified as non-hydric.

The Elburn soil series consists very deep, somewhat poorly drained soils on outwash plains, stream terraces, and till plains. These soils formed in loess or other silty material and in the underlying loamy stratified outwash under prairie vegetation. Elburn soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Hayfield soil series consists of very deep, somewhat poorly drained soils that formed in silty or loamy sediments and the underlying sandy and gravelly outwash. These soils occur on linear or concave slopes on outwash plains, valley trains, treads and risers on stream terraces, and glaciated uplands under tallgrass prairie and oak savanna vegetation. Hayfield soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Sable soil series consists of very deep, poorly drained, moderately permeable soils formed in loess on nearly level broad summits of moraines and stream terraces. These soils formed under marsh, sedge meadow, and wet prairie vegetation and are classified as hydric.

The St. Charles soil series consists of very deep, well drained soils on outwash plains, till plains, or stream terraces. They formed in loess and in the underlying loamy outwash or sandy loam till under hardwood forest vegetation. St. Charles soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Virgil soil series consists of very deep, somewhat poorly drained soils on outwash plains, stream terraces, or till plains. These soils formed in loess or other silty material and in the underlying loamy outwash or sandy loam till under prairie and oak savanna vegetation. Virgil soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by groundwater as well as runoff from the surrounding suburban developments. Prior to 1937, the southern portion of the

conservancy was ditched to make arable land with flow directed southerly to a large wetland complex associated with Mud Lake. At some point prior to 1955, a second ditch was constructed in the northern portion of the conservancy. This ditch drains the northern wetland area, flows under Creamery Road connecting to the original southern ditch, and receives flows from a stormwater basin north of the adjacent railroad tracks. Several other outfalls feed water to the northern wetland from the surrounding developments. A major concern in this area is flooding as encroaching development and increased impervious surfaces are likely resulting in increased volumes of water flowing into Grand View Conservancy and raising local water tables during storm events.

Grand View Conservancy currently consists of approximately 7.55 acres of emergent marsh, 3.21 acres of shrub-invaded mesic prairie, 2.45 acres of mesic prairie, 0.68 acres of pond, 4.76 acres of southern hardwood swamp, 7.20 acres of southern mesic forest, 3.86 acres of wet meadow, 1.89 acres of wet-mesic prairie, 0.25 acres of landscaped/developed land, and 1.01 acres of trails (Figure 5b). RES estimates approximately 18.74 acres of wetlands are present onsite. Non-native invasive species such as reed canary grass, narrow-leaved cattail, honeysuckles (*Lonicera* spp.), common buckthorn (*Rhamnus cathartica*), and garlic mustard (*Alliaria petiolata*) are prevalent. This conservancy also contains populations of several garden escapees that likely originate from nearby residential gardens. A patch of relatively high quality native wet prairie/wet-mesic prairie is present in the southern portion of the site and contains species such as Michigan lily (*Lilium michiganense*) and various sedges *(Carex* spp.). More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Grand View may host a variety of wildlife species including urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossoms, rock pigeons, American robins, black-capped chickadees, and mourning doves. Prairie species include sparrow species, meadowlark (*Sturnella* spp.), eastern bluebird (*Sialia sialis*), cedar waxwing (*Bombycilla cedrorum*), and American goldfinch (*Spinus tristis*), and gartersnake (*Thamnophis* spp.). Aquatic species that may utilize the pond and its vicinity include northern water snakes (*Nerodia sipedon*), American bullfrog, snapping turtle, and painted turtle. Bat species that may use the forested areas include northern-long eared bat, little brown bat, and tri-colored bat. Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Encroachment from neighboring landowners onto the Village's property is a significant source of ecological stressors at Grand View Conservancy. Landowners are using and maintaining the fringes of the conservancy in numerous locations as extensions of their property. Gardens, garden waste, trash, fire pits, manicured lawns, and drainage ditches are examples of features found in these encroachment zones (Photos 16-18). These land uses are resulting in elevated levels of sediments, nutrients, and other pollutants flowing directly into the adjacent conservancy wetlands as well as large populations of escaped exotic garden ornamental species. Some activities such as ditching to promote drainage may be outright violations of wetland laws. Harboring and allowing the spread of restricted invasive species is also a violation of Chapter NR 40 of the Wisconsin Statutes. Potential solutions to these encroachment issues are discussed later in the CMP (see Community Opportunities section).

Indian Mound and Thrun Marsh Conservancies

The Indian Mound/Thrun Marsh Conservancy complex (including the School Forest parcel) is approximately 22.05-acres. Thrun Marsh to the south is situated on a flat, lacustrine plain landform just east of the Yahara River (Figure 3a). Elevations and relief increase to the north where the landform transitions from ground moraine to a drumlin in the highest elevations of Indian Mound Conservancy. Elevations range from 846 in

the bottom of the marsh in the southern portion of the site to 958 on the top of the drumlin in the northern portion of the site.

Indian Mound/Thrun Marsh Conservancies are comprised of six soil map units: Adrian muck, 0-2% slopes (Ad); Marshan silt loam (Mc); McHenry silt loam, 2-6% slopes (MdB); Military loam, 12-20% slopes, eroded (MhD2); Plano silt loam, gravelly substratum, 2-6% slopes (PoB); and St. Charles silt loam, 2-6% slopes (ScB) (Table 3) (Figure 4a).

Table 3. Indian Mound/Thrun Marsh Conservancies Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Ad – Adrian muck, 0-2% slopes	18%	Very poorly drained	100% Hydric	Depressions	Marsh, sedge meadows, shrub-carr
Mc – Marshan silt loam	25%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie
MdB – McHenry silt loam, 2-6% slopes	14%	Well drained	0% Hydric	Moraines	Hardwood forest
MhD2 – Military loam, 12-20% slopes, eroded	37%	Well drained	0% Hydric	Hills	Hardwood forest
PoB – Plano silt loam, gravelly substratum, 2-6% slopes	1%	Well drained	0% Hydric	Outwash plains	Prairie
ScB – St. Charles silt loam, 2-6% slopes	5%	Well drained	3% Hydric	Till Plains	Forest

The Adrian and St. Charles soil series were described in detail in previous sections. The Marshan soils series consists of very deep, poorly and very poorly drained soils that formed in loamy sediments and the underlying sandy and gravelly outwash. These soils occur on plane or slightly concave positions along narrow drainageways on outwash plains, valley trains, and stream terraces under wet prairie and wet-mesic prairie vegetation. Marshan soils are classified as hydric.

The McHenry soil series consists of very deep, well drained soils formed in loess or other silty material and in the underlying loamy till on moraines and till plains. These soils formed under hardwood forest vegetation and are classified as non-hydric.

The Military soil series consists of well drained soils that are moderately deep to a lithic contact with sandstone. These upland soils formed in sandy loam till underlain by sandstone bedrock under hardwood forest vegetation.

The Plano soil series consists of very deep, well drained soils on outwash plains, stream terraces, or till plains. These soils formed in loess or other silty material and in the underlying loamy stratified outwash or sandy loam till under prairie vegetation. Plano soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Thrun Marsh Conservancy and southern portion of the Indian Mound Conservancy are situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). The drumlin in the northern portion of Indian Mound Conservancy forms the watershed boundary between the Lake Kegonsa-Yahara River HUC-10 Watershed to the south and the Lake Monona-Yahara River HUC-10 Watershed (0709000207) to the north.

Geology and topographic maps indicate Thrun Marsh was historically fully hydrologically connected to the Yahara River. This hydrologic connection was altered significantly with construction of Jaeger Road, Jaeger Park, and residential developments to the north of the park. Prior to 1937, Thrun Marsh was ditched with flow directed southwesterly under Jaeger Road, and outletting to the Yahara River. This connection remains today, though the ditch appears to have been sedimented-in and flow from Jaeger Road west was routed underground.

Several prehistoric Native American mounds exist at Indian Mound Conservancy. Vegetation on these mounds is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Today Thrun Marsh functions largely as a stormwater basin, collecting and treating runoff from the surrounding developed and undeveloped areas. This highlights the importance of restoration and maintenance of the marsh's adjacent uplands, as well as the need to repair the several stormwater issues that exist within the conservancy complex to ensure the marsh is receiving pre-treated, clean water.

A stormwater outlet draining the residential development to the north is present approximately 200 feet north of the marsh (Figure 5c). Unabated stormwater is concentrated and directed from the pipe to the south through a relatively high-gradient draw and eventually to the marsh (Photos 28-31). Through the years, this draw has eroded severely from high flows during large precipitation events and large quantities of sediment has deposited into the marsh. Repair is needed to arrest this erosional process and eliminate sediment deposition in the marsh from this location. Several other outfalls feed water to Thrun Marsh from the surrounding developments (Figure5c).

Severe rill erosion is also present on the trails in the eastern portion of Indian Mound Conservancy. Erosion is being caused by concentrated stormwater surface runoff from Indian Mound Middle School (Figure 5c) (Photo 32 and 33). Potential solutions to the stormwater issues at Indian Mound/Thrun Marsh Conservancies are discussed later in the CMP.

Indian Mound/Thrun Marsh Conservancies currently consist of approximately 4.13 acres of emergent marsh, 4.34 acres of southern hardwood swamp, 1.71 acres of southern mesic forest, and 11.87 acres of southern dry-mesic forest (Figure 5c). RES estimates approximately 8.47 acres of wetlands are present onsite. Non-native invasive species such as narrow-leaved cattail, Asian bittersweet (*Celastrus orbiculatus*), common buckthorn, and honeysuckles are prevalent at these conservancies. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Due to its size and proximity to residential areas, Indian Mound/Thrun Marsh Conservancies are most likely to be utilized by urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossoms, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. Bat species may include northern-long eared bat, little brown bat, and tri-colored bat. Thrun Marsh is likely used by a variety of reptile and amphibians such as painted turtles, snapping turtles, American toad, American bullfrog, and spring peepers. Other species may include marsh wren, great blue heron, swamp sparrow, and muskrats. Additionally, Indian Mound and Thrun Marsh may be utilized as a stopover for migratory bird species such as warbler species, vireos (*Vireo* spp.), flycatchers (*Empidonax* spp.), orioles (*Icterus* spp.), thrushes, hummingbirds, and tanagers (*Piranga* spp.).

Appendix C presents a summary of bird observation data from these conservancies derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Marsh Woods Conservancy

The approximately 32.80-acre Marsh Woods Conservancy is on a glacial lacustrine plain abutting the north shore of Mud Lake. Topography is relatively flat except for the hills in the eastern portion of the site which have some relief and steeper slopes (Figure 3b). Elevations range from 844 feet along the Mud Lake shoreline in the southern portion of the site to 867 feet on a hillslope in the northeastern portion of the site.

Marsh Woods Conservancy is comprised of ten soil map units: Adrian muck, 0-2% slopes (Ad); Dodge silt loam, 2-6% slopes (DnB); Dodge silt loam, 6-12% slopes, eroded (DnC2); Dresden silt loam, 2-6% slopes (DsB); Granby loamy sand (Gn); Hayfield silt loam, 0-3% slopes (HaA); Marshan silt loam (Mc); McHenry silt loam, 2-6% slopes (MdB); Virgil silt loam, gravelly substratum, 0-3% slopes (VwA); and Water (W) (Table 4) (Figure 4b).

Table 4. Marsh Woods Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Ad – Adrian muck, 0-2% slopes	16%	Very poorly drained	100% Hydric	Depressions	Marsh, sedge meadows, shrub-carr
DnB – Dodge silt loam, 2-6% slopes	18%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
DnC2 – Dodge silt loam, 6-12% slopes, eroded	1%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
DsB – Dresden silt loam, 2-6% slopes	4%	Well drained	0% Hydric	Plains	Oak savanna
Gn – Granby loamy sand	23%	Very poorly drained	100% Hydric	Stream terraces and lake beds	Marsh, sedge meadow, forested wetland
HaA – Hayfield silt loam, 0-3% slopes	2%	Somewhat poorly drained	5% Hydric	Outwash Plains	Tallgrass prairie
Mc – Marshan silt loam	21%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie
MdB – McHenry silt loam, 2-6% slopes	11%	Well drained	0% Hydric	Moraines	Hardwood forest
VwA – Virgil silt loam, gravelly substratum, 0-3% slopes	3%	Somewhat poorly drained	10% Hydric	Drainageways on outwash plains	Prairie, savanna
W – Water	1%	N/A	N/A	N/A	N/A

The Adrian, Dodge, Hayfield, Marshan, McHenry, and Virgil soil series were described in detail in previous sections. The Dresden soil series consists of very deep, well drained soils on kames, outwash plains, and stream terraces. These soils formed in silty material and the underlying loamy sediments over calcareous gravel and sand under oak savanna vegetation. Dresden soils are classified as non-hydric.

The Granby soil series consists of very deep, poorly drained or very poorly drained soils formed in sandy outwash or sandy glaciolacustrine deposits on outwash plains, lake plains, and glacial drainageways. These soils formed under marsh, sedge meadow, and forested wetland vegetation and are classified as hydric.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by groundwater

as well as runoff from the developments to the north. Hydrology in the lowest portions of the site is also influenced by surface water from Mud Lake, especially during periods of high water.

Marsh Woods Conservancy currently consists of approximately 6.52 acres of emergent marsh, 1.10 acres of mesic prairie, 4.47 acres of oak woodland, 1.14 acres of shrub-carr, 0.95 acres of southern hardwood swamp, 7.25 acres of southern sedge meadow, 5.10 acres of surrogate grassland, 1.73 acres of wet meadow, 3.66 acres of active-use park, 0.26 acres of lake, and 0.62 acres of trails (Figure 5d). RES estimates approximately 17.59 acres of wetlands are present onsite. Non-native invasive species such as reed canary grass, narrow-leaved cattail, honeysuckles, and common buckthorn are prevalent in areas. There is also a relatively high-quality sedge meadow in the central portion of the site dominated by the native tussock sedge (*Carex stricta*). This area likely represents remnant conditions since wetlands at Marsh Woods Conservancy appear to have been left relatively undisturbed historically. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that may utilize Marsh Woods Conservancy include emergent and sedge meadow species that are documented at the Lower Mud Lake State Natural Area, such as pied-billed grebe (*Podilymbus Podiceps*), American bittern (*Botaurus lentiginosus*), common goldeneye (*Bucephala clangula*), mallard (*Anas platyrhynchos*), northern pintail (*Anas acuta*), blue-winged teal (*Spatula discors*), wood duck (*Aix sponsa*), and Virginia rail (*Rallus limicola*). Reptile and amphibians such as painted turtles, snapping turtles, American toad, American bullfrog, and spring peepers may use the site. Woodland species may include warblers, American robin, ovenbird (*Seiurus aurocapilla*), woodpecker species, black-capped chickadee, and eastern wood peewee (*Contopus virens*). Other species that may use the area are white-tailed deer, raccoons, flying squirrels (*Glaucomys sabrinus*), grey squirrel, woodland vole, muskrats, and bat species such as northern-long eared bat, little brown bat, and tri-colored bat.

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Siggelkow Road Park

The approximately 5.60-acre Siggelkow Road Park sits on a drumlin landform in the west and a ground moraine landform to the east. The eastern portion of the site is flat while the western portion is relatively steeply sloped (Figure 3c). The site slopes downwards generally from west to east. Elevations range from 871 feet in the southeastern portion of the site to 943 feet on the top of the drumlin in the southwestern portion of the site.

Siggelkow Road Park is comprised of four soil map units: Batavia silt loam, gravelly substratum, 0-2% slopes (BbA); Kidder loam, 12-20% slopes, eroded (KdD2); McHenry silt loam, 6-12% slopes, eroded (MdC2); and St. Charles silt loam, 2-6% slopes (ScB) (Table 5) (Figure 4c).

Table 5. Siggelkow Road Park Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
BbA – Batavia silt loam, gravelly substratum, 0-2% slopes	1%	Well drained	0% Hydric	Outwash plains	Oak savanna
KdD2 – Kidder loam, 12-20% slopes, eroded	42%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
MdC2 – McHenry silt loam, 6-12% slopes, eroded	33%	Well drained	0% Hydric	Moraines	Hardwood forest
ScB – St. Charles silt loam, 2-6% slopes	24%	Well drained	3% Hydric	Till Plains	Forest

The Kidder, McHenry, and St. Charles soil series were described in detail in previous sections. The Batavia soil series consists of very deep, well drained soils on till plains, glacial outwash plains, and stream terraces. These formed in loess or other silty material and in loamy stratified outwash or sandy loam till under oak savanna vegetation. Batavia soils are classified as non-hydric.

The conservancy is situated in the Lake Monona-Yahara River HUC-10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Given the elevations of the site, water is generally shed from the site to lower areas north and east of the conservancy. Groundwater is likely deep at this site due to the well-drained soils.

Several prehistoric Native American mounds exist at Siggelkow Road Park. Vegetation on these mounds is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Siggelkow Road Park currently consists of approximately 3.82 acres of southern dry-mesic forest and 1.78 acres of active-use park (Figure 5e). It is RES' opinion that no wetlands are present onsite. Non-native invasive species such as honeysuckles and common buckthorn are prevalent at this conservancy. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that may use the small dry-mesic southern woodland are likely urban wildlife species such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. Bat species that may use the forest include northern-long eared bat, little brown bat, and tri-colored bat.

Taylor Road Conservancy

The approximately 3.14-acre Taylor Road Conservancy is on a drumlin landform with steep slopes (Figure 3c). Elevations range from 864 in the eastern portion of the site to 929 feet on the top of the drumlin in the northwestern portion of the site. It is surrounded on all sides by residential developments.

The conservancy is comprised of three soil map units: Elburn silt loam, 0-3% slopes (EfB); Gravel pit (GP); and Kidder loam, 12-20% slopes, eroded (KdD2) (Table 6) (Figure 4c).

Table 6. Taylor Road Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
EfB – Elburn silt loam, 0-3% slopes	1%	Somewhat poorly drained	9% Hydric	Stream terraces, outwash plains, drainageways	Prairie
GP – Gravel pit	<1%	N/A	1% Hydric	N/A	N/A
KdD2 – Kidder loam, 12-20% slopes, eroded	99%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest

Elburn and Kidder soil series were described in detail in previous sections. The Gravel Pit (GP) soil map unit typically represents anthropogenic soils.

The conservancy is situated in the Lake Monona-Yahara River HUC-10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Given the elevations of the site, water is generally shed from the site in all directions to surrounding lower areas. Groundwater is likely deep at this site due to the well-drained soils.

One prehistoric Native American mound exists at Taylor Road Conservancy. Vegetation on this mound is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Taylor Road Conservancy currently consists of approximately 1.94 acres of conifer plantation and 1.20 acres of woody-invaded surrogate grassland (Figure 5f). It is RES' opinion that no wetlands are present onsite. The site has a long history of disturbance from land use practices such as farming, silviculture, and grading to accommodate residential development. Non-native invasive species such as white mulberry (*Morus alba*), honeysuckles, and common buckthorn are prevalent at this conservancy. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that may use the Taylor Road Conservancy are primarily urban wildlife species such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. The surrogate invaded grassland may be occupied by bird species such as golden-winged (*Vermivora chrysoptera*) and mourning warblers (*Geothlypis Philadelphia*), brown thrashers (*Toxostoma rufum*), eastern kingbird (*Tyrannus tyrannus*), eastern towhees (*Pipilo erythrophthalmus*), white-throated sparrows (*Zonotrichia albicollis*), field sparrows (*Spizella pusilla*), meadowlarks, and grasshopper sparrow (*Ammodramus savannarum*).

Urso Park

The approximately 45.67-acre Urso Park is on a glacial lacustrine plain approximately 0.4 miles northeast of Mud Lake. The southern portion of the site occurs on a ground moraine landform. The topography at the conservancy is relatively flat with steeper slopes in the south (Figure 3b). The site generally slopes downward from south to north and then drains to the west. Elevations range from 855 feet in the ditch in the northern portion of the site to 880 feet on a hillslope on the southwest portion of the site.

Urso Park is comprised of five soil map units: Dodge silt loam, 6-12% slopes, eroded (DnC2); Sable silty clay loam, 0-2% slopes (SaA); St. Charles silt loam, 2-6% slopes (ScB); Virgil silt loam, gravelly substratum, 0-3% slopes (VwA); and Wacousta silty clay loam, 0-2% slopes (Wa) (Table 7) (Figure 4b).

Table 7. Urso Park Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
DnC2 – Dodge silt loam, 6-12% slopes, eroded	8%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
SaA – Sable silty clay loam, 0-2% slopes	42%	Poorly drained	85% Hydric	Swales	Sedge meadow, wet prairie
ScB – St. Charles silt loam, 2-6% slopes	13%	Well drained	3% Hydric	Till Plains	Forest
VwA – Virgil silt loam, gravelly substratum, 0-3% slopes	22%	Somewhat poorly drained	10% Hydric	Drainageways on outwash plains	Prairie, savanna
Wa – Wacousta silty clay loam, 0-2% slopes	15%	Very poorly drained	100% Hydric	Interdrumlins	Marsh, sedge meadow, shrub-carr

Dodge, Sable, St. Charles, and Virgil soil series were described in detail in previous sections. The Wacousta soil series consists of very deep, very poorly drained soils formed in silty lacustrine sediments. These soils occur in broad depressions and swales on till plains, moraines, and stream terraces under marsh, sedge meadow, and shrub-carr vegetation. Wacousta soils are classified as hydric.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by groundwater as well as runoff from the surrounding agricultural and residential developments. The site drains to the north where an east to west flowing ditch directs water west towards a large wetland complex associated with Mud Lake.

Urso Park currently consists of approximately 1.44 acres of old apple orchard, 0.66 acres of conifer plantation, 5.36 acres of emergent marsh, 7.91 acres of oak woodland, 0.52 acres of pond, 3.81 acres of shrub-carr, 7.34 acres of southern hardwood swamp, 3.40 acres of wet meadow, 5.41 acres of disc golf course, 9.43 acres of dog park, and 0.39 acres of trails (Figure 5g). RES estimates that approximately 20.44 acres of wetlands exist onsite. Portions of the site have a long history of relatively intense land uses such as farming and orchards, and more recently, dog park and disc golf course developments. Non-native invasive species such as reed canary grass, narrow-leaved cattail, multiflora rose (*Rosa multiflora*), and honeysuckles are prevalent at this conservancy. Recent efforts by the Village to remove invasive shrubs from the oak woodland have resulted in improved species composition and structure in this area. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that likely utilize Urso Park include urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossoms, rock pigeons, American robins, black-capped chickadees, and mourning doves. Potential bat species include northern-long eared bat, little brown bat, and tri-colored bat. The emergent wetlands and wet meadows may be used by painted turtles, snapping turtles, American toad, American bullfrog, and spring peepers, marsh wren, great blue heron, swamp sparrow, and muskrats. Animals that may occupy the shrub-carr include willow flycatcher (*Empidonax traillii*), gray catbird (*Dumetella carolinensis*), eastern kingbird, cedar waxwing, and rose-breasted grosbeak (*Pheucticus ludovicianus*).

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Woodland Commons Conservancy

The approximately 5.21-acre Woodland Commons Conservancy is on a drumlin landform with steep slopes (Figure 3c). Elevations range from 861 feet in the western portion of the site to 939 feet on the top of the drumlin in the northern portion of the site. It is surrounded on all sides by commercial and residential developments.

Woodland Commons Conservancy is comprised of three soil map units: Kidder loam, 6-12% slopes, eroded (KdC2); Kidder loam, 12-20% slopes, eroded (KdD2); and Marshan silt loam (Mc) (Table 8) (Figure 4c).

Table 8. Woodland Commons Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
KdC2 – Kidder loam, 6-12% slopes, eroded	14%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
KdD2 – Kidder loam, 12-20% slopes, eroded	85%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
Mc – Marshan silt loam	1%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie

Kidder and Marshan soil series were described in detail in previous sections.

The conservancy is situated in the Lake Monona-Yahara River HUC-10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Given the elevations of the site, water is generally shed from the site in all directions to surrounding lower areas. Groundwater is likely deep at this site due to the well-drained soils.

Two prehistoric Native American mounds exist at Woodland Commons Conservancy. Vegetation on these mounds is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Woodland Commons Conservancy currently consists of approximately 5.16 acres of southern dry-mesic forest and 0.05 acres of landscaped area (Figure 5h). It is RES' opinion that no wetlands are present onsite. The site has been heavily invaded by non-native, invasive shrubs such as honeysuckles and common buckthorn. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

The small parcel of dense southern dry woodlands found in Woodland Commons is most likely utilized by urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossoms, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. Bat species that may use the forest include northern-long eared bat, little brown bat, and tri-colored bat.

Yahara River Conservancy

The approximately 1.11-acre Yahara River Conservancy is on a glacial lacustrine plain landform in the floodplain of the Yahara River. The topography at the conservancy is flat though a shallow ditch in the northern portion of the site has sloped banks (Figure 3a). The site generally slopes downward from north to south. Elevations range from 845 feet along the Yahara River shoreline in the southern portion of the site to 850 feet in the northern portion of the site.

Yahara River Conservancy is comprised of two soil map units: Granby loamy sand (Gn) and Marshan silt loam (Mc) (Table 9) (Figure 4a).

Table 9. Yahara River Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Gn – Granby loamy sand	93%	Very poorly drained	100% Hydric	Stream terraces and lake beds	Marsh, sedge meadow, forested wetland
Mc – Marshan silt loam	7%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie

Granby and Marshan soil series were described in detail in previous sections.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by the Yahara River; however, the site also receives overflow from a small stormwater basin immediately to the north. This basin receives stormwater from the residential developments to the north. An east to west flowing ditch in the northern portion of the site directs overflow from the stormwater basin to the west and then south to the Yahara River.

The Yahara River Conservancy is a relatively small site containing approximately 0.36 acres of emergent marsh, 0.69 acres of floodplain forest, and 0.06 acres of boat launch (Figure 5i). RES estimates that approximately 1.05 acres of wetlands exist onsite. Non-native invasive species such as reed canary grass, narrow-leaved cattail, honeysuckles, and common buckthorn are prevalent at this conservancy.

Due to the proximity to the Lower Mud Lake State Natural Area, wildlife use is likely to be high and include a large variety of bird species. Emergent species known to nest in the vicinity include pied-billed grebe, American bittern, common goldeneye, mallard, northern pintail, blue-winged teal, wood duck, and Virginia rail. Floodplain forest species include a variety of bird species such as warblers, American robin, ovenbird, bald eagle (*Haliaeetus leucocephalus*), and red-tailed hawk (*Buteo jamaicensis*). Other species that may use the area are white-tailed deer, raccoons, flying squirrels, grey squirrel, muskrats, and bat species such as northern-long eared bat, little brown bat, and tri-colored bat.

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Current Management Practices

The Village currently conducts spring burns at Marsh Woods and Grand View Conservancies every other year. Village staff conduct winter brush removal at the various conservancies and install/maintain fire breaks at Marsh Woods and Grand View Conservancies. The Village also treats resprouting invasive shrubs in areas that have been forestry mowed such as in Grand View Conservancy.

The Village organized volunteer brush cutting workdays in the winter of 2019/2020 at Siggelkow Road Park, Marsh Woods Conservancy, Woodland Commons Conservancy, and Indian Mound/Thrun Marsh Conservancies. Volunteers also periodically conduct brush removal and spot herbicide treatments of invasive species at Marsh Woods Conservancy.

Vegetation Assessment Results

Introduction

The emphasis of the baseline assessments was to quantify plant species abundance; vegetation cover type structure, composition, quality, and extent; and extent and location of rare and invasive species. RES delineated 28 MUs across the ten conservancies (Figure 5, Table 10) and collected baseline vegetation data within each. The data represent conditions on the dates of the surveys.

Table 10. Management Unit Information

Conservancy	Management Unit ID	Habitat Type	Surface Area (ac)
Babcock Conservancy	BMU-1	Southern mesic forest	0.57
	BMU-2	Emergent marsh	4.40
		Southern hardwood swamp	1.95
Grand View Conservancy	GMU-1A-EM	Emergent marsh	2.21
	GMU-1A-HS	Southern hardwood swamp	4.09
	GMU-1A-WM	Wet meadow	3.86
		Wet-mesic Prairie	1.89
	GMU-1B	Emergent marsh	5.34
		Southern hardwood swamp	0.67
	GMU-2A	Mesic prairie	2.45
	GMU-2B	Invaded mesic prairie	3.21
	GMU-3A	Southern mesic forest	4.31
	GMU-3B	Southern mesic forest	2.89
Indian Mound/Thrun Marsh Conservancies	ITMU-1	Southern dry-mesic forest	11.87
		Southern mesic forest	1.71
	ITMU-2	Emergent marsh	4.13
		Southern hardwood swamp	4.34
Marsh Woods Conservancy	MMU-1	Oak woodland	4.47
	MMU-2	Mesic prairie	1.10
		Surrogate grassland	5.10
	MMU-3	Emergent marsh	6.52
		Shrub-carr	1.14
		Southern hardwood swamp	0.95
		Southern sedge meadow	7.25
		Wet meadow	1.73
Siggelkow Road Park	SMU-1	Southern dry-mesic forest	3.82
Taylor Road Conservancy	TMU-1	Conifer plantation	1.94
	TMU-2	Invaded surrogate grassland	1.20
Urso Park	UMU-1-EM	Emergent marsh	5.36
	UMU-1-HS	Southern hardwood swamp	7.33
	UMU-1-SCE	Shrub-carr	2.27
	UMU-1-SCN	Shrub-carr	1.55
	UMU-1-WMN	Wet meadow	2.74
	UMU-1-WMS	Wet meadow	0.66
	UMU-2	Oak woodland	7.91
	UMU-3	Conifer plantation	0.31
		Orchard	1.44
Woodland Commons Conservancy	WMU-1	Southern dry-mesic forest	5.16
Yahara River Conservancy	YMU-1	Emergent marsh	0.36
		Floodplain forest	0.69

Vegetation mapping efforts indicate the Village conservancies are currently comprised of a total of approximately 1.44 acres of old apple orchard, 2.60 acres of conifer plantation, 28.42 acres of emergent marsh, 0.69 acres of floodplain forest, 3.21 acres of woody-invaded mesic prairie, 1.20 acres of woody-invaded surrogate grassland, 3.55 acres of mesic prairie, 12.38 acres of oak woodland, 4.95 acres of shrub-carr, 20.85 acres of southern dry-mesic forest, 19.34 acres of southern hardwood swamp, 9.48 acres of southern mesic forest, 7.25 acres of southern sedge meadow, 5.10 acres of surrogate grassland, 9.00 acres of wet meadow, 1.89 acres of wet-mesic prairie, and 1.20 acres of pond. In total, RES estimates that approximately 72.74 acres of wetlands exist across the ten conservancies. Several other cover types exist within the conservancies that are not the subject of this CMP, including trails, landscaped/developed, disc golf course, dog park, boat launch, and active-use park.

Plant Community Descriptions

Conifer plantations are present at Taylor Road Conservancy and Urso Park. Dominant overstory species in these areas include red pine and Norway spruce (*Picea abies*) often with an understory composed of honeysuckle and/or common buckthorn. In addition, old orchard plantings are found at Urso Park, which are dominated by apple (*Malus pumila*) in the overstory and pasture grasses such as timothy (*Phleum pratense*) in the understory.

Emergent marsh wetlands are present at all conservancies except Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy. Emergent marshes are generally dominated by species such as narrow-leaved cattail and reed canary grass, though significant stands of the native broad-leaved cattail (*Typha latifolia*) are present at Urso Park.

Yahara River Conservancy is the only conservancy containing floodplain forest wetlands. Floodplain forest is dominated by cottonwood in the overstory and pussy willow (*Salix discolor*), red-osier dogwood (*Cornus sericea*), and common buckthorn in the understory.

Mesic prairie is found at Grand View and Marsh Woods Conservancies and is dominated by herbaceous species such as Indian grass (*Sorghastrum nutans*) and Canada goldenrod (*Solidago canadensis*). Woody-invaded mesic prairie, found at Grand View Conservancy, has a similar herbaceous layer but with high cover of shrubs including gray dogwood (*Cornus foemina* ssp. *racemosa*) and honeysuckle.

Surrogate grassland, found at Marsh Woods Conservancy, is dominated by non-native, cool-season grasses such as Kentucky bluegrass (*Poa pratensis*) and smooth brome (*Bromus inermis*). Woody-invaded surrogate grassland, found at Taylor Road Conservancy, has a similar herbaceous layer but with high cover of shrubs and trees including black walnut (*Juglans nigra*), honeysuckle, and smooth sumac (*Rhus glabra*). These areas are also heavily invaded by crown vetch (*Securigera varia*).

Oak woodland is currently found at Marsh Woods Conservancy and Urso Park. Oak woodlands are dominated by species such as white oak, bur oak (*Quercus macrocarpa*), and shagbark hickory (*Carya cordiformis*) with total canopy closure over 50% but less than 100%.

Shrub-carr wetlands are found at Marsh Woods Conservancy and Urso Park and are generally dominated by dogwoods (*Cornus* spp.), sandbar willow (*Salix interior*), and several other willows species (*Salix* spp.).

Southern dry-mesic forest is found at Siggelkow Road Park, Woodland Commons Conservancy, and Indian Mound Conservancy. This forest type is generally dominated by species such as white oak, red oak (*Quercus rubra*), and black cherry (*Prunus serotina*) in the overstory; gray dogwood, honeysuckle, and common buckthorn in the sapling/shrub stratum; and enchanter's nightshade (*Circaea canadensis*), wild geranium

(*Geranium maculatum*), and white snakeroot (*Ageratina altissima*) in the herbaceous stratum. Canopy closure exceeded 100% in southern dry-mesic forests which differentiated it from oak woodland (50-99% canopy closure). Dry-mesic forest was differentiated from mesic forest by having higher proportions of black oak (*Quercus velutina*), red oak, and white oak which are more characteristic of forests with drier soil moisture regimes.

Southern mesic forest is found at Babcock, Grandview, and Indian Mound/Thrun Marsh Conservancies. The species composition of the southern mesic forests within the Village varies widely between sites. For instance, mesic forest at Babcock Conservancy is dominated by typical mesic forest species such as sugar maple and American basswood. Whereas mesic forest at Grand View Conservancy is a disturbance-adapted mesic forest type dominated almost exclusively by boxelder (*Acer negundo*) in the overstory. In general, mesic forest was differentiated from dry-mesic forest by having a higher proportion of species such as American basswood and hackberry (*Celtis occidentalis*) versus black, red, and white oak which are more characteristic of dry-mesic and dry forest types.

Southern hardwood swamp wetlands are present at all conservancies except Siggelkow Road Park, Taylor Road Conservancy, Woodland Commons Conservancy, and Yahara River Conservancy. Southern hardwood swamp species compositions are variable between sites; however, this habitat is generally dominated by silver maple, cottonwood, and black willow *(Salix nigra*) in the overstory; dogwoods, sandbar willow, pussy willow, and green ash in the sapling/shrub stratum; and reed canary grass in the herbaceous stratum. Orange jewelweed (*Impatiens capensis*) and white avens (*Geum canadense*) were also commonly found in the herbaceous stratum of the various southern hardwood swamp wetlands.

Southern sedge meadow is found at Marsh Woods Conservancy and is dominated by tussock sedge (*Carex stricta*) and to a lesser extent, blue-joint grass (*Calamagrostis canadensis*). The hummocky terrain of the wet meadow wetlands at Urso Park indicate that sedge meadow was the likely plant community in this area historically but it has since been invaded by reed canary grass due to the extensive soil and hydrologic disturbances that have occurred in the past.

Wet meadow wetlands are present at Grand View Conservancy, Marsh Woods Conservancy, and Urso Park and are dominated by reed canary grass. Minor components of this habitat type include fowl manna grass (*Glyceria striata*), blue vervain (*Verbena hastata*), and stinging nettle (*Urtica dioica*).

A patch of transitional wet-mesic prairie is present mid-slope between wet meadow wetlands and mesic prairie in the southern portion of Grand View Conservancy. Recent forestry mowing in this area has resulted in a flush of native species germinating from the seed bank. The wet-mesic prairie is dominated by recently cut and resprouting honeysuckle, sedges (*Carex* spp.), and saw-tooth sunflower (*Helianthus grosseserratus*). Numerous Michigan lily (*Lilium michiganense*) individuals are found in the wetter portions of this area and the neighboring wet meadow.

Percent Cover

In summer 2022, total native percent cover ranged from 32% in GMU-1A-EM (emergent marsh portions of Grand View Conservancy) to 215% in ITMU-1 (Indian Mound Conservancy dry-mesic forest) (Table 11). Total non-native percent cover ranged from 4% in BMU-1 (mesic forest portion of Babcock Conservancy) to 107% in UMU-3 (orchard/conifer plantation portion of Urso Park). Total invasive species cover ranged from 0% in BMU-1 (mesic forest portion of Babcock Conservancy) to 77% in BMU-2 (wetland portion of Babcock Conservancy) and GMU-1A-EM (emergent marsh portions of Grand View Conservancy). Other highly invaded areas in summer 2022 included GMU-3A (mesic forest in southern portion of Grand View

Conservancy) at 74% invasive cover and GMU-1A-HS (hardwood swamp portion of Grand View Conservancy) at 63% invasive cover.

In spring 2023, total native percent cover ranged from 5% in GMU-1A-EM (emergent marsh portions of Grand View Conservancy) to 227% in BMU-1 (mesic forest portion of Babcock Conservancy) (Table 12). Total non-native percent cover ranged from 1% in BMU-1 (mesic forest portion of Babcock Conservancy) to 64% in TMU-2 (invaded surrogate grassland portion of Taylor Road Conservancy). Total invasive species cover ranged from 0% in BMU-1 (mesic forest portion of Babcock Conservancy) to 59% in GMU-1A-WM (wet meadow portion of Grand View Conservancy). Other highly invaded areas in spring 2023 included GMU-3A (mesic forest in southern portion of Grand View Conservancy) at 56% invasive cover and YMU-1 (Yahara River Conservancy) at 53% invasive cover.

The complete percent cover data set for spring and summer surveys is presented in Appendix D.

Table 11. Summer 2022 Absolute Percent Cover Data Summary

Conservancy	MU ID	Canopy Stratum				Sapling/Shrub Stratum				Vine Stratum				Herbaceous Stratum				All Strata Combined			
		T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I
Babcock	BMU-1	100%	100%	0%	0%	18%	17%	1%	0%	0%	0%	0%	0%	31%	28%	3%	0%	**149%**	**145%**	**4%**	**0%**
	BMU-2	25%	24%	1%	0%	16%	5%	11%	9%	4%	4%	0%	0%	133%	47%	86%	68%	**178%**	**80%**	**98%**	**77%**
Grand View	GMU-1A-EM	0%	0%	0%	0%	2%	0%	2%	2%	0%	0%	0%	0%	120%	42%	78%	75%	**122%**	**32%**	**80%**	**77%**
	GMU-1A-HS	58%	57%	1%	0%	24%	11%	13%	13%	5%	5%	0%	0%	99%	44%	55%	50%	**186%**	**117%**	**69%**	**63%**
	GMU-1A-WM	0%	0%	0%	0%	15%	9%	6%	6%	2%	2%	0%	0%	142%	83%	59%	52%	**159%**	**94%**	**65%**	**59%**
	GMU-1B	7%	6%	1%	1%	6%	6%	0%	0%	4%	4%	0%	0%	98%	42%	56%	53%	**115%**	**58%**	**57%**	**54%**
	GMU-2A	1%	1%	0%	0%	38%	10%	28%	28%	0%	0%	0%	0%	80%	57%	23%	3%	**119%**	**68%**	**51%**	**31%**
	GMU-2B	<1	<1	0%	0%	75%	53%	22%	20%	8%	8%	0%	0%	142%	125%	17%	2%	**225%**	**186%**	**39%**	**22%**
	GMU-3A	77%	76%	1%	1%	52%	7%	45%	45%	1%	1%	0%	0%	62%	28%	34%	28%	**192%**	**112%**	**80%**	**74%**
	GMU-3B	117%	112%	5%	5%	18%	9%	9%	9%	9%	9%	0%	0%	97%	82%	15%	11%	**241%**	**212%**	**29%**	**25%**
Indian Mound/Thrun Marsh	ITMU-1	104%	103%	1%	1%	45%	34%	11%	8%	18%	8%	10%	10%	87%	70%	17%	3%	**254%**	**215%**	**39%**	**22%**
	ITMU-2	42%	32%	10%	0%	56%	31%	25%	18%	6%	6%	0%	0%	97%	52%	45%	34%	**201%**	**121%**	**80%**	**52%**
Marsh Woods	MMU-1	90%	90%	0%	0%	54%	46%	8%	6%	15%	15%	0%	0%	54%	44%	10%	6%	**213%**	**195%**	**18%**	**12%**
	MMU-2	3%	3%	0%	0%	28%	21%	7%	7%	2%	2%	0%	0%	151%	65%	86%	3%	**184%**	**91%**	**93%**	**10%**
	MMU-3	30%	29%	1%	1%	36%	30%	6%	4%	5%	5%	0%	0%	129%	78%	51%	43%	**200%**	**142%**	**58%**	**48%**
Siggelkow Rd	SMU-1	92%	92%	0%	0%	18%	5%	13%	13%	5%	5%	0%	0%	74%	60%	14%	7%	**189%**	**162%**	**27%**	**20%**
Taylor Rd	TMU-1	106%	97%	9%	9%	30%	6%	24%	20%	7%	7%	0%	0%	43%	19%	24%	16%	**186%**	**129%**	**57%**	**45%**
	TMU-2	51%	49%	2%	2%	39%	34%	5%	5%	5%	5%	0%	0%	100%	27%	73%	25%	**195%**	**115%**	**80%**	**32%**
Urso	UMU-1-EM	0%	0%	0%	0%	3%	1%	2%	2%	0%	0%	0%	0%	108%	74%	34%	28%	**111%**	**75%**	**36%**	**30%**
	UMU-1-HS	53%	53%	0%	0%	45%	33%	12%	12%	12%	12%	0%	0%	56%	48%	8%	34%	**166%**	**146%**	**20%**	**46%**
	UMU-1-SCE	7%	6%	1%	0%	52%	46%	6%	6%	4%	4%	0%	0%	56%	34%	22%	17%	**119%**	**90%**	**29%**	**23%**
	UMU-1-SCN	40%	39%	1%	1%	48%	33%	15%	15%	14%	14%	0%	0%	59%	41%	18%	14%	**161%**	**127%**	**34%**	**30%**
	UMU-1-WMN	1%	1%	0%	0%	15%	8%	7%	7%	3%	3%	0%	0%	100%	39%	61%	38%	**119%**	**51%**	**68%**	**45%**
	UMU-1-WMS	2%	2%	0%	0%	5%	5%	0%	0%	5%	5%	0%	0%	104%	45%	59%	54%	**116%**	**57%**	**59%**	**54%**
	UMU-2	57%	56%	1%	1%	35%	18%	17%	14%	9%	9%	0%	0%	58%	43%	15%	9%	**159%**	**126%**	**33%**	**24%**
	UMU-3	70%	35%	35%	0%	40%	30%	10%	8%	15%	15%	0%	0%	131%	69%	62%	49%	**256%**	**149%**	**107%**	**57%**
Woodland Commons	WMU-1	113%	108%	5%	5%	56%	26%	30%	27%	8%	8%	0%	0%	94%	78%	16%	11%	**241%**	**190%**	**51%**	**43%**
Yahara River	YMU-1	63%	63%	0%	0%	54%	39%	15%	15%	9%	9%	0%	0%	71%	23%	48%	41%	**197%**	**134%**	**63%**	**56%**

Note: T = Total, N = Native, NN = Non-native, I = Invasive

Table 12. Spring 2023 Absolute Percent Cover Data Summary

Conservancy	MU ID	Canopy Stratum				Sapling/Shrub Stratum				Vine Stratum				Herbaceous Stratum				All Strata Combined			
		T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I
Babcock	BMU-1	100%	100%	0%	0%	18%	17%	1%	<1%	0%	0%	0%	0%	110%	110%	0%	0%	**228%**	**227%**	**1%**	**0%**
	BMU-2	25%	24%	1%	0%	16%	5%	11%	9%	4%	4%	0%	0%	24%	15%	9%	7%	**69%**	**48%**	**21%**	**16%**
Grand View	GMU-1A-EM	0%	0%	0%	0%	2%	0%	2%	2%	0%	0%	0%	0%	41%	5%	36%	36%	**43%**	**5%**	**38%**	**38%**
	GMU-1A-HS	58%	57%	1%	0%	24%	11%	13%	13%	5%	5%	0%	0%	43%	11%	32%	24%	**130%**	**84%**	**46%**	**37%**
	GMU-1A-WM	0%	0%	0%	0%	15%	9%	6%	6%	2%	2%	0%	0%	87%	32%	55%	53%	**104%**	**43%**	**61%**	**59%**
	GMU-1B	7%	6%	1%	1%	6%	6%	0%	0%	2%	2%	0%	0%	38%	14%	24%	12%	**53%**	**28%**	**25%**	**13%**
	GMU-2A	1%	1%	0%	0%	38%	10%	28%	28%	0%	0%	0%	0%	44%	18%	26%	5%	**83%**	**29%**	**54%**	**33%**
	GMU-2B	<1%	<1%	0%	0%	75%	53%	22%	20%	8%	8%	0%	0%	37%	11%	26%	10%	**120%**	**72%**	**48%**	**30%**
	GMU-3A	77%	76%	1%	1%	52%	7%	45%	45%	0%	0%	0%	0%	23%	9%	14%	10%	**152%**	**92%**	**60%**	**56%**
	GMU-3B	117%	112%	5%	5%	18%	9%	9%	9%	9%	9%	0%	0%	65%	41%	24%	21%	**209%**	**171%**	**38%**	**35%**
Indian Mound/Thrun Marsh	ITMU-1	104%	103%	1%	1%	45%	34%	11%	8%	17%	7%	10%	10%	45%	43%	2%	1%	**211%**	**187%**	**24%**	**20%**
	ITMU-2	42%	32%	10%	0%	56%	31%	25%	18%	6%	6%	0%	0%	26%	15%	11%	9%	**130%**	**84%**	**46%**	**27%**
Marsh Woods	MMU-1	90%	90%	0%	0%	54%	46%	8%	6%	15%	15%	0%	0%	55%	44%	11%	9%	**214%**	**195%**	**19%**	**15%**
	MMU-2	3%	3%	0%	0%	28%	21%	7%	7%	2%	2%	0%	0%	27%	10%	17%	2%	**60%**	**36%**	**24%**	**9%**
	MMU-3	30%	29%	1%	1%	36%	30%	6%	4%	2%	2%	0%	0%	34%	18%	16%	12%	**102%**	**79%**	**23%**	**17%**
Siggelkow Rd	SMU-1	92%	92%	0%	0%	18%	5%	13%	13%	5%	5%	0%	0%	46%	36%	10%	6%	**161%**	**138%**	**23%**	**19%**
Taylor Rd	TMU-1	106%	97%	9%	9%	30%	6%	24%	20%	7%	7%	0%	0%	31%	10%	21%	16%	**174%**	**120%**	**54%**	**45%**
	TMU-2	51%	49%	2%	2%	39%	34%	5%	5%	5%	5%	0%	0%	63%	6%	57%	8%	**158%**	**94%**	**64%**	**15%**
Urso	UMU-1-EM	0%	0%	0%	0%	3%	1%	2%	2%	0%	0%	0%	0%	34%	6%	28%	26%	**37%**	**7%**	**30%**	**28%**
	UMU-1-HS	53%	53%	0%	0%	45%	33%	12%	12%	12%	12%	0%	0%	44%	18%	26%	24%	**154%**	**116%**	**38%**	**36%**
	UMU-1-SCE	7%	6%	1%	0%	52%	46%	6%	6%	3%	3%	0%	0%	42%	18%	24%	21%	**104%**	**73%**	**31%**	**27%**
	UMU-1-SCN	40%	39%	1%	1%	48%	33%	15%	15%	14%	14%	0%	0%	44%	15%	29%	19%	**146%**	**101%**	**45%**	**35%**
	UMU-1-WMN	1%	1%	0%	0%	15%	8%	7%	7%	2%	2%	0%	0%	46%	8%	38%	37%	**64%**	**19%**	**45%**	**44%**
	UMU-1-WMS	2%	2%	0%	0%	5%	5%	0%	0%	5%	5%	0%	0%	55%	4%	51%	51%	**67%**	**16%**	**51%**	**51%**
	UMU-2	57%	56%	1%	1%	35%	18%	17%	14%	7%	7%	0%	0%	26%	18%	8%	7%	**125%**	**99%**	**26%**	**22%**
	UMU-3	70%	35%	35%	0%	40%	30%	10%	8%	0%	0%	0%	0%	51%	7%	44%	33%	**161%**	**72%**	**89%**	**41%**
Woodland Commons	WMU-1	113%	108%	5%	5%	56%	26%	30%	27%	8%	8%	0%	0%	41%	27%	14%	9%	**218%**	**169%**	**49%**	**41%**
Yahara River	YMU-1	63%	63%	0%	0%	54%	39%	15%	15%	4%	4%	0%	0%	45%	4%	41%	38%	**166%**	**110%**	**56%**	**53%**

Note: T = Total, N = Native, NN = Non-native, I = Invasive

Floristic Quality Assessment

In summer 2022, total species richness ranged from 40 at Yahara River Conservancy to 164 at Indian Mound/Thrun Marsh Conservancies (Table 13). Native species richness ranged from 23 to 123 at those same conservancies. Non-native species richness ranged from 14 at Woodland Commons Conservancy to 43 at Grandview Conservancy. In spring 2023, total species richness ranged from 24 at Yahara River Conservancy to 96 at Grand View Conservancy (Table 14). Native species richness ranged from 17 at Yahara River Conservancy to 70 at Indian Mound/Thrun Marsh Conservancies. Non-native species richness ranged from 7 at Yahara River Conservancy to 31 at Grand View Conservancy.

Table 13. Summer 2022 Floristic Quality Assessment Data Summarized by Conservancy

Conservancy	*w*Mean C		*w*FQI		Species Richness		
	Native	All	Native	All	Native	Non-native	Total
Babcock	3.8	2.9	30.4	26.6	63	19	82
Grand View	3.3	2.4	34.3	29.0	109	43	152
Indian Mound/Thrun Marsh	4.1	3.1	45.7	39.6	123	41	164
Marsh Woods	3.6	2.8	37.6	32.9	110	33	143
Siggelkow Rd	3.3	2.2	20.8	16.9	39	20	59
Taylor Rd	2.8	1.7	17.0	13.2	36	24	60
Urso	3.5	2.7	37.7	33.0	113	35	148
Woodland Commons	3.5	2.7	24.7	21.9	50	14	64
Yahara River	2.8	1.6	13.3	10.1	23	17	40

Table 14. Spring 2023 Floristic Quality Assessment Data Summarized by Conservancy

Conservancy	*w*Mean C		*w*FQI		Species Richness		
	Native	All	Native	All	Native	Non-native	Total
Babcock	4.3	3.4	25.5	22.8	35	9	44
Grand View	3.6	2.4	29.0	23.9	65	31	96
Indian Mound/Thrun Marsh	4.1	3.2	34.3	30.3	70	20	90
Marsh Woods	3.7	2.7	27.1	23.1	54	20	74
Siggelkow Rd	4.0	2.8	22.5	18.9	32	13	45
Taylor Rd	3.6	2.2	18.5	14.5	27	17	44
Urso	3.4	2.3	26.5	22.2	62	27	89
Woodland Commons	3.8	2.8	23.7	20.4	40	14	54
Yahara River	3.2	2.3	13.3	11.2	17	7	24

In summer 2022, *w*Mean C, considering all species (native and non-native), ranged from 0.6 at GMU-3A (mesic forest in southern portion of Grand View Conservancy) to 4.6 in BMU-1 (mesic forest portion of Babcock Conservancy) (Table 15). *w*FQI, considering all species, ranged from 3.7 in GMU-3A (mesic forest in southern portion of Grand View Conservancy) to 35.5 in ITMU-1 (mesic and dry-mesic forest at Indian Mound Conservancy). In spring 2023, *w*Mean C, considering all species, ranged from 0.3 at GMU-3A (mesic forest in southern portion of Grand View Conservancy) to 5.4 in BMU-1 (mesic forest portion of Babcock Conservancy) (Table 16). *w*FQI considering all species ranged from 1.6 in GMU-1A-EM (emergent marsh portions of Grand View Conservancy) to 28.9 in ITMU-1 (upland forested portion of Indian Mound/Thrun Marsh Conservancies).

Lower Mean C/FQI scores indicate plant communities dominated by plant species that are relatively tolerant

of disturbance while higher Mean C/FQI scores indicate plant communities dominated by plant species that are relatively intolerant of disturbance. Provisional FQA benchmarks have been developed by the WDNR for wetland systems using *w*Mean C (Marti & Bernthal 2019) which is helpful for interpretating the results of this FQA. Five categories of habitat quality exist based on FQA benchmarks: Excellent, Good, Fair, Poor, and Very Poor. Provisional benchmarks do not yet exist for upland habitats making FQA scores in those areas more difficult to interpret.

Using *w*Mean C scores, the wetland communities within Village conservancies ranged in quality from Very Poor to Fair. YMU-1, a floodplain forest wetland, rated as Very Poor. UMU-1-EM, an emergent marsh wetland in Urso Park, rated as Fair. The numerous other wetlands and wetland complexes within the Village conservancies, including BMU-2, GMU-1A, GMU-1B, ITMU-2, MMU-3, and UMU-1 all rated as poor for their respective wetland types. Though not assessed individually apart from the larger wetland complex, the sedge meadow wetland at Marsh Woods Conservancy by itself is a relatively high-quality wetland that would likely be rated as Good or Excellent.

MUs with relatively low Mean C/FQI scores were GMU-3A (mesic forest in southern portion of Grand View Conservancy), GMU-1A-EM (emergent marsh wetlands at Grand View Conservancy), and UMU-1 (wet meadow wetlands at Urso Park). MUs with relatively high Mean C/FQI scores were ITMU-1 (mesic and dry-mesic forest at Indian Mound Conservancy), MMU-1 (oak woodland at Marsh Woods Conservancy), BMU-1 (mesic forest portion of Babcock Conservancy), and UMU-2 (oak woodland portion of Urso Park). FQA data collected after restoration activities have been completed will indicate whether the treatments have had a positive effect on habitat quality.

The complete FQA data set for spring and summer surveys is presented in Appendix E.

Table 15. Summer 2022 Floristic Quality Assessment Data Summarized by Management Unit

Conservancy	MU ID	*w*Mean C		*w*FQI		Species Richness		
		Native	All	Native	All	Native	Non-native	Total
Babcock	BMU-1	4.7	4.6	14.1	15.4	9	2	11
	BMU-2	3.3	1.7	25.1	15.0	59	19	78
Grand View	GMU-1A-EM	2.9	1.0	11.6	4.7	16	6	22
	GMU-1A-HS	2.6	1.7	14.9	10.4	32	7	39
	GMU-1A-WM	3.9	2.3	27.4	18.2	50	13	63
	GMU-1B	2.9	1.5	16.4	9.0	31	6	37
	GMU-2A	2.0	1.3	12.2	10.0	36	24	60
	GMU-2B	2.7	2.2	13.9	12.8	27	6	33
	GMU-3A	1.1	0.6	5.2	3.7	22	11	33
	GMU-3B	2.8	2.5	14.9	15.1	28	9	37
Indian Mound/Thrun Marsh	ITMU-1	4.2	3.5	36.4	35.5	76	28	104
	ITMU-2	3.6	2.4	31.5	24.0	75	26	101
Marsh Woods	MMU-1	4.4	4.1	31.9	32.7	52	11	63
	MMU-2	2.9	1.4	21.2	12.1	53	18	71
	MMU-3	3.4	2.5	26.0	22.1	58	19	77
Siggelkow Rd	SMU-1	4.4	3.6	27.3	27.9	39	20	59
Taylor Rd	TMU-1	5.3	4.0	24.9	22.8	22	11	33
	TMU-2	2.4	1.4	10.5	8.6	20	19	39
Urso	UMU-1-EM	3.2	2.3	18.1	13.8	32	5	37
	UMU-1-HS	3.8	2.8	21.9	18.2	34	8	42
	UMU-1-SCE	3.2	2.4	20.6	17.5	41	11	52
	UMU-1-SCN	3.0	2.4	15.8	14.4	27	9	36
	UMU-1-WMN	3.1	1.3	15.6	8.5	25	15	40
	UMU-1-WMS	4.0	1.9	13.7	7.5	12	3	15
	UMU-2	4.0	3.3	29.2	27.2	53	14	67

Conservancy	MU ID	*w*Mean C		*w*FQI		Species Richness		
		Native	All	Native	All	Native	Non-native	Total
	UMU-3	2.8	1.7	14.0	10.3	25	12	37
Woodland Commons	WMU-1	3.8	3.1	26.7	24.9	50	14	64
Yahara River	YMU-1	2.3	1.5	11.2	9.8	23	17	40

Table 16. Spring 2023 Floristic Quality Assessment Data Summarized by Management Unit

Conservancy	MU ID	*w*Mean C		*w*FQI		Species Richness		
		Native	All	Native	All	Native	Non-native	Total
Babcock	BMU-1	5.4	5.4	20.4	21.7	14	2	16
	BMU-2	3.2	2.4	17.4	14.9	30	9	39
Grand View	GMU-1A-EM	7.0	0.8	7.0	1.6	1	3	4
	GMU-1A-HS	2.4	1.5	10.1	8.2	18	10	28
	GMU-1A-WM	4.9	2.0	20.1	10.4	17	9	26
	GMU-1B	3.8	1.9	15.0	10.1	16	12	28
	GMU-2A	2.5	1.1	10.3	6.3	17	17	34
	GMU-2B	2.7	1.6	10.5	7.7	15	7	22
	GMU-3A	0.6	0.3	2.0	1.7	12	11	23
	GMU-3B	3.3	2.6	17.8	16.7	30	10	40
Indian Mound/Thrun Marsh	ITMU-1	4.2	3.7	29.2	28.9	49	12	61
	ITMU-2	3.3	2.4	19.4	16.9	35	14	49
Marsh Woods	MMU-1	4.9	4.5	28.4	30.3	34	11	45
	MMU-2	3.0	1.9	13.9	10.5	21	11	32
	MMU-3	3.0	2.6	14.4	14.7	23	9	32
Siggelkow Rd	SMU-1	4.7	3.9	26.5	26.3	32	13	45
Taylor Rd	TMU-1	5.6	4.2	22.9	20.8	17	8	25
	TMU-2	2.7	1.6	10.8	8.8	16	14	30
Urso	UMU-1-EM	2.6	0.6	6.4	1.7	6	4	10
	UMU-1-HS	3.8	2.9	20.4	17.4	29	8	37
	UMU-1-SCE	3.3	2.3	17.2	13.8	27	8	35
	UMU-1-SCN	2.8	2.0	13.0	11.3	21	12	33
	UMU-1-WMN	2.8	0.8	9.7	3.6	12	7	19
	UMU-1-WMS	4.1	1.0	10.9	3.0	7	2	9
	UMU-2	4.1	3.4	20.8	20.4	26	10	36
	UMU-3	3.1	1.5	10.3	7.9	11	18	29
Woodland Commons	WMU-1	3.9	3.1	24.6	23.1	40	14	54
Yahara River	YMU-1	2.5	1.6	10.1	7.9	17	7	24

Rare Plants

RES located and mapped one sensitive plant species during the summer of 2022: obovate beak grain (*Diarrhena obovata*, State Endangered). The population was located throughout the understory at Indian Mound/Thrun Marsh Conservancies (Figure 7). It is relatively common for this species to be planted in shady parts of residential yards; however, no records are known to exist indicating that this is a planted population (pers. comm. S. Larson), nor does it appear that this population has escaped from nearby landscaped areas. No other rare plants were documented at any other Village conservancy during summer 2022 or spring 2023.

Invasive Species

Invasive species such as common buckthorn, Tartarian honeysuckle (*Lonicera tatarica*), white mulberry (*Morus alba*), Canada thistle (*Cirsium arvense*), narrow-leaved cattail, and reed canary grass are prevalent at

Village conservancies. One particularly interesting non-native species population located and mapped by RES was a population of strawberry ground-cherry (*Physalis alkekengi*) (Photo 18) in GMU-3A (mesic forest in southern portion of Grand View Conservancy) which has likely escaped from nearby residential gardens. This popular ornamental is native to Europe and Asia, and the characteristic inflated calyx of this genus creates a bladder or lantern-shaped structure enclosing the fruit. Locations and extents of significant invasive species populations mapped in 2022 are presented in Figure 6a-Figure 6i.

Conceptual Ecological Restoration Plan

Introduction

Reflecting the diversity of biotic and abiotic conditions of the Village conservancies, fourteen target natural communities are proposed for this restoration effort: oak woodland, southern dry-mesic forest, southern mesic forest, southern hardwood swamp, floodplain forest, shrub-carr, emergent marsh, pond shoreline, southern sedge meadow, wet prairie, wet-mesic prairie, mesic prairie, dry-mesic prairie, and conifer plantation. A variety of methods are proposed to accomplish this including invasive species removal, native seeding/planting, prescribed fire, and habitat enhancement feature installation.

Some of the recommended restoration actions will result in substantial reductions in tree and shrub cover while other recommendations will result in almost no perceptible change to the appearance of the system. The CMP seeks to address both the positive and negative aspects of these changes.

Conceptual restoration plan maps are shown on Figure 8a-Figure 8i in Appendix A.

Basis of Design

Historical Ecology

The primary goal of this CMP is to restore the historical ecological conditions of the conservancies where appropriate and feasible. Many of the wooded plant communities in the vicinity of the Village historically consisted of open-canopy savannas and woodlands. Tree canopy cover in savannas range from 10-50%, woodlands range from 50-99%, and, in forest systems, canopy cover exceeds 99%. These systems were typically dominated by oaks and hickories. Closed-canopy forests, such as southern mesic forest, did exist historically in this area. In those locations, RES is recommending restoring and maintaining the closed canopy structure. With lack of maintenance, particularly fire, and invasive species colonization since European settlement, forest canopies in this area have gradually closed and forests have become overstocked by shade-tolerant species. This condition is not desirable from an ecological perspective because it reduces wildlife habitat quality, reduces biological diversity, denudes the herbaceous layer increasing runoff and reducing downstream water quality, and allows for the ready transmission of forest pests and diseases.

Forest thinning and invasive shrub removal is recommended for most of the Village conservancies to various degrees. The most substantial changes in canopy structure are proposed for portions of Grand View Conservancy, Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy. Proposed reductions in tree cover in these areas range from 40-71% depending on the conservancy (Table 17). Shrub enhancement is proposed for most wooded areas so the reduction in shrub cover will be temporary. The mesic forest canopy at Grand View Conservancy will be significantly denuded in the short-term; however, to expedite recovery of these systems, dense tree and shrub planting with fast-growing species is proposed. The Village could also opt to phase tree removal and reforestation in these areas to minimize canopy reduction at any given point in time.

Table 17. Pre- and Post-restoration Tree and Shrub Cover

Conservancy	MU	Proposed Community	Pre-restoration % Cover		Post-restoration % Cover	
			Tree	Shrub	Tree	Shrub**
Grand View*	GMU-3A	Mesic Forest	77%	52%	6%	2%
	GMU-3B	Mesic Forest	117%	18%	77%	9%
Siggelkow Rd	SMU-1	Oak Woodland	92%	18%	46%	4%
Taylor Rd	TMU-2	Dry-mesic Prairie	51%	39%	1%	17%
Woodland Commons	WMU-1	Oak Woodland	113%	56%	44%	12%

* Mesic forest in the southern portion of Grand View Conservancy is dominated overwhelmingly by invasive trees. The intent is for this forest to remain closed-canopy mesic forest; however, invasive trees must first be removed which will result in an open-canopy system for several decades until planted trees begin reaching maturity.
** Post-restoration shrub cover reflects conditions immediately after woody removal. Enhancement of the shrub layer is proposed for several conservancies and native shrub cover is expected to rebound accordingly.

Wildlife

Wildlife habitat improvement is also a critical design consideration. RES instituted the following design considerations in developing this CMP to improve habitat for birds, bats, mammals, herptiles, and native crayfish. For birds, the CMP seeks to increase and enhance habitat extent, connectivity, quality, structure, and buffers by reducing non-native, invasive species; installing native tree, shrub, and herbaceous species with diverse budburst phenology and fruit/seed diversity in forest and shrubland habitats; installing a diverse mix of native herbaceous species in herbaceous plant communities (e.g., prairies and emergent marshes); and retaining and creating snags. The CMP also seeks to promote prey biomass and foraging areas for birds by maximizing stream and wetland buffers and implementing Integrated Pest Management (IPM) strategies.

For bats, maintain linear habitat corridors, retain/create dead and dying trees, avoid summer tree removal, conduct prescribed burning, and retain natural vegetation along waterbodies. For non-bat mammals, restore natural vegetation along waterbodies.

For herptiles, restore upland hardwoods forest; retain and create downed woody debris; create, restore, and enhance wetlands and ponds; and reduce cover of non-native, invasive species. For native crayfish, maintain and enhance floodplain and isolated wetlands, control invasive species, establish diverse native plant communities, and reduce cover of root mat forming species (e.g., cattail and reed canary grass)

Human Considerations

The appearance of restored woodlands is often drastically different than the overstocked, shrub-invaded woodlands that many people are accustomed to encountering in urban and suburban contexts. In fact, many people may have never seen an example of a healthy remnant or restored ecosystem; and therefore, lack a frame of reference. Residents living adjacent to densely wooded areas may also perceive a reduction in privacy as a result of tree and shrub thinning. Forest restoration can therefore be regarded in a negative light. On the other hand, immense value is had by connecting with history and becoming refamiliarized with the historical ecosystems that have been nearly erased from the landscape. In this way, people can become acquainted with new ways of observing and interacting with these systems. It can be difficult to find balance between the immediate emotional response to a restored landscape with appreciation for the new and enhanced functions that system is now providing. It is critically important in these modern times for people to reconnect to landscapes of the past and participate in recreating them when the opportunities arise.

As mentioned previously, proposed enhancement of the shrub layer in restored woodlands will help to recreate the sense of privacy enjoyed by conservancy neighbors in a relatively short amount of time. Dense tree and shrub replanting of fast-growing species proposed at Grand View Conservancy are an added feature of the CMP that will help to accelerate canopy recovery in this area.

Lastly, open-canopy forests provide users with an enhanced sense of safety as they allow for a more extensive field of view and lack of cover for illegal activities. It is clear that short-term inconveniences are relatively minor tradeoffs when compared to the enhanced aesthetics, wildlife viewing, public safety, and cleaner water that will be provided by the restored conservancies.

Target Plant Communities

If hydrology restoration is pursued at any of the conservancies, those measures should be completed prior to the vegetation restoration activities such as seeding and planting.

Oak Woodland

Enhancement of existing oak woodland is proposed at Marsh Woods Conservancy (4.47 acres) and Urso Park (7.91 acres). In addition, southern dry-mesic forest is proposed to be converted to oak woodland at Siggelkow Road Park (3.82 acres) and Woodland Commons Conservancy (5.16 acres). Proposed enhancement/rehabilitation measures include the following:

- Woody invasive species should be removed in MMU-1, UMU-1, SMU-1, and WMU-1 in winter Year-1. Tree-sized common buckthorn should be removed using chainsaws and small/scattered patches of invasive shrubs such as common buckthorn, honeysuckle, multi-flora rose (*Rosa multiflora*), privet (*Ligustrum vulgare*), and autumn olive (*Elaeagnus umbellata*) should be cut with brushcutters. Dense and extensive populations of invasive shrubs, such as those at WMU-1 should be removed via forestry mower. Cut stumps should be spot-treated with herbicide immediately after removal. In areas that are forestry mowed, broadcast-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Cut or girdle all boxelder, white mulberry, and silver poplar (*Populus alba*) trees using chainsaws and treat stumps with herbicide in MMU-1, UMU-1, SMU-1, and WMU-1 in winter Year-1.
- More extensive tree removal is proposed for SMU-1 and WMU-1 in order to convert these areas to oak woodland. Remove or girdle all black cherry, hackberry, ash, American basswood, black walnut, and cottonwood. To help offset costs, the Village could consider conducting timber salvage operations using professional foresters in these areas as several of these tree species could provide valuable timber.
- Retain several logs from each conservancy for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily (*Hemerocallis fulva*), Japanese hedge-parsley (*Torilis japonica*), and garlic mustard with herbicide throughout the growing season starting in early spring Year-2 once initial tree and shrub removal is completed. Opening of the canopy will likely result in large flushes of garlic mustard so timely response will be critical for early control of this species. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in MMU-1, UMU-1, SMU-1, and WMU-1 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer

should be mowed and raked. Broadcast seed MMU-1 and UMU-1 in fall Year-2 per Table 18. Broadcast seed SMU-1 and WMU-1 in fall Year-2 per Table 19. Debris left over from forestry mowing may need to be removed prior to seeding if it will inhibit seed/soil contact. Excessive debris will need to be removed from around the base of trees to be preserved prior to burning.

- In seeded areas of SMU-1, and WMU-1 where annual weeds become prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Install native trees and shrubs shown in Table 20 at SMU-1 and WMU-1 once woody invasive species have been adequately controlled in spring/summer Year-3. Native tree and shrub planting is not proposed for oak woodland at MMU-1 or UMU-1; however, if natural recruitment of native woody species is lacking several years after initial restoration activities in these areas, the Village should consider supplemental native woody planting.
- Begin long-term management of MMU-1, UMU-1, SMU-1, and WMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 18. Oak Woodland Herbaceous Seed Mix for MMU-1 and UMU-1

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Carex molesta	field oval sedge	0.53
Carex normalis	spreading oval sedge	0.96
Carex radiata	curly wood sedge	0.64
Carex sprengelii	long-beaked sedge	0.06
Elymus hystrix	bottlebrush grass	6.72
Elymus villosus	silky wild rye	3.84
Luzula multiflora	common wood rush	0.32
Schizachyrium scoparium	little bluestem	4.80
Forbs		
Agastache nepetoides	yellow giant hyssop	1.54
Allium cernuum	nodding wild onion	0.22
Aquilegia canadensis	wild columbine	0.69
Baptisia alba	white wild indigo	1.28
Bouteloua curtipendula	side oats grama	4.80
Eupatorium altissimum	tall boneset	0.96
Eutrochium purpureum	purple joe pye weed	0.64
Helianthus divaricatus	woodland sunflower	0.32
Helianthus strumosus	pale-leaved sunflower	0.32
Monarda fistulosa	wild bergamot	0.64
Polygonatum biflorum	smooth Solomon's seal	0.06
Rudbeckia triloba	brown-eyed Susan	1.28
Solidago juncea	early goldenrod	0.64
Symphyotrichum laeve	smooth blue aster	0.12
Symphyotrichum oolentangiense	sky-blue aster	0.12
Thalictrum thalictroides	rue anemone	0.32
Veronicastrum virginicum	Culver's root	0.06
Zizia aurea	golden alexanders	0.12
	Total	**32.00**
Cover Crop		
Elymus canadensis	Canada wild rye	64.00
	Gr. Total	**96.00**

Table 19. Oak Woodland Herbaceous Seed Mix for SMU-1 and WMU-1

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Carex molesta	field oval sedge	2.11
Carex normalis	spreading oval sedge	3.84
Carex radiata	curly wood sedge	2.56
Carex sprengelii	long-beaked sedge	0.26
Elymus hystrix	bottlebrush grass	26.88
Elymus villosus	silky wild rye	15.36
Luzula multiflora	common wood rush	1.28
Schizachyrium scoparium	little bluestem	19.20
Forbs		
Agastache nepetoides	yellow giant hyssop	6.16
Allium cernuum	nodding wild onion	0.90
Aquilegia canadensis	wild columbine	2.78
Baptisia alba	white wild indigo	5.12
Bouteloua curtipendula	side oats grama	19.20
Eupatorium altissimum	tall boneset	3.84
Eutrochium purpureum	purple joe pye weed	2.56
Helianthus divaricatus	woodland sunflower	1.28
Helianthus strumosus	pale-leaved sunflower	1.28
Monarda fistulosa	wild bergamot	2.56
Polygonatum biflorum	smooth Solomon's seal	0.26
Rudbeckia triloba	brown-eyed Susan	5.12
Solidago juncea	early goldenrod	2.56
Symphyotrichum laeve	smooth blue aster	0.46
Symphyotrichum oolentangiense	sky-blue aster	0.46
Thalictrum thalictroides	rue anemone	1.28
Veronicastrum virginicum	Culver's root	0.23
Zizia aurea	golden alexanders	0.46
	Total	**128.00**
Cover Crop		
Elymus canadensis	Canada wild rye	64.00
	Gr. Total	**192.00**

Table 20. Oak Woodland Woody Plant Palette for SMU-1 and WMU-1

Scientific Name	Common Name	Density (trees/shrubs per acre)
Carya ovata	shagbark hickory	10
Corylus americana	hazelnut	15
Hamamelis virginiana	American witch-hazel	10
Prunus americana	wild plum	20
Quercus alba	white oak	10
Quercus macrocarpa	bur oak	5
Quercus velutina	black oak	10
Ribes missouriense	Missouri gooseberry	10
Viburnum acerifolium	maple-leaved viburnum	10
	Total	**100**

Southern Dry-mesic Forest

Southern dry-mesic forest enhancement is proposed at Indian Mound Conservancy (11.87 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in ITMU-1 (dry-mesic forest portion) in winter Year-1. If tree-sized common buckthorn is encountered, it should be removed using chainsaws. Invasive saplings, shrubs, and vines such as common buckthorn, honeysuckle, multi-flora rose, privet, Asian bittersweet *(Celastrus orbiculatus*), and Norway maple (*Acer platanoides*) should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting invasive woody species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Cut or girdle all boxelder, white mulberry, Norway spruce, and Norway maple trees using chainsaws and treat stumps with herbicide in ITMU-1 in winter Year-1.
- Retain several logs for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily, lily-of-the-valley (*Convallaria majalis*), reed canary grass, and garlic mustard with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Opening of the canopy may result in flushes of garlic mustard so timely response will be critical for early control of this species. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in ITMU-1 in fall Year-2 to prepare the soil for native seeding. Exclude areas dominated by obovate beak grain as reseeding these areas is not necessary. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed these same areas in fall Year-1 per Table 21.
- Native tree and shrub planting is not proposed for the dry-mesic forest portion of ITMU-1; however, if natural recruitment of native woody species is lacking several years after initial restoration activities in these areas, the Village should consider supplemental native woody planting.
- Begin long-term management of ITMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 21. Southern Dry-mesic Forest Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Carex radiata	curly wood sedge	0.64
Carex sprengelii	long-beaked sedge	0.06
Elymus hystrix	bottlebrush grass	7.56
Elymus villosus	silky wild rye	4.86
Luzula multiflora	common wood rush	0.32
Forbs		
Allium cernuum	nodding wild onion	0.22
Anemone quinquefolia	wood anemone	0.64
Aquilegia canadensis	wild columbine	0.69
Arisaema triphyllum	Jack-in-the-pulpit	0.32
Caulophyllum thalictroides	blue cohosh	3.01
Claytonia virginica	spring beauty	0.20
Desmodium glutinosum	pointed tick-trefoil	0.02

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Dicentra cucullaria	dutchman's britches	0.13
Dodecatheon meadia	shooting star	0.38
Eupatorium altissimum	tall boneset	0.32
Eutrochium purpureum	purple joe pye weed	0.64
Geranium maculatum	wild geranium	0.03
Helianthus divaricatus	woodland sunflower	0.32
Helianthus strumosus	pale-leaved sunflower	0.32
Hepatica nobilis var. *acuta*	sharp-lobed hepatica	0.16
Heuchera richardsonii	prairie alum root	3.84
Maianthemum racemosum	false Soloman's seal	0.32
Podophyllum peltatum	may apple	0.03
Polemonium reptans	Jacob's ladder	0.13
Polygonatum biflorum	smooth Solomon's seal	0.06
Rudbeckia triloba	brown-eyed Susan	1.28
Sanguinaria canadensis	bloodroot	0.10
Solidago flexicaulis	broad-leaved goldenrod	0.32
Solidago juncea	early goldenrod	1.28
Solidago ulmifolia	elm-leaved goldenrod	0.95
Symphyotrichum laeve	smooth blue aster	1.98
Thalictrum thalictroides	rue anemone	0.32
Veronicastrum virginicum	Culver's root	0.06
Viola pubescens	downy yellow violet	0.48
	Total	**32.00**
Cover Crop		
Elymus canadensis	Canada wild rye	64.00
	Gr. Total	**96.00**

Southern Mesic Forest

Southern mesic forest enhancement is proposed at Babcock Conservancy (0.57 acres), Grand View Conservancy (7.20 acres), and Indian Mound Conservancy (1.71 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in GMU-3A, GMU-3B, and ITMU-1 (mesic forest portion) in winter Year-1. It should be noted that no highly invasive shrubs were noted at BMU-1, however, this should be confirmed as the implementation phase approaches. If tree-sized common buckthorn is encountered at any of the conservancies, it should be removed using chainsaws. Invasive saplings, shrubs, and vines such as common buckthorn, honeysuckle, multi-flora rose, privet, and Asian bittersweet should be cut with brushcutters or chainsaws. Dense and extensive populations of invasive shrubs, such as those at GMU-3A, should be removed via forestry mower. Cut stumps should be spot-treated with herbicide immediately after removal. In areas that are forestry mowed, broadcast-spray resprouting invasive woody species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Cut or girdle all boxelder, white mulberry, and black locust (*Robinia pseudoacacia*) trees using chainsaws and treat stumps with herbicide in GMU-3A, GMU-3B, and ITMU-1 in winter Year-1.
- Retain several logs for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily, lily-of-the-valley, reed canary grass, strawberry ground-cherry, and garlic mustard with herbicide throughout the growing season at all four conservancies starting in spring Year-2 once initial tree and shrub

removal is completed. Opening of the canopy will likely result in large flushes of garlic mustard so timely response will be critical for early control of this species. Repeat spot-spraying in Year-3 and Year-4.

- Where fuel loads are adequate, conduct prescribed burns in GMU-3A, GMU-3B, and ITMU-1 in fall Year-2 to prepare the soil for native seeding. Exclude areas at Indian Mound/Thrun Marsh Conservancies that are dominated by obovate beak grain as reseeding these areas is not necessary. Seedbed preparation is also not necessary at BMU-1. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed GMU-3B, and ITMU-1 in fall Year-2 per Table 22. Due to the open canopy conditions that will result at GMU-3A, broadcast seed this area in fall Year-2 per the Mesic Prairie Mix in Table 34. Debris left over from forestry mowing may need to be removed prior to seeding if it will inhibit seed/soil contact. Excessive debris will need to be removed from around the base of trees to be preserved prior to burning.
- Install native trees and shrubs shown in Table 23 in GMU-3A and GMU-3B once woody invasive species have been adequately controlled in spring Year-3.
- In seeded areas of GMU-1A and GMU-1B where annual weeds become prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Native tree and shrub planting is not proposed for BMU-1 or ITMU-1; however, if natural recruitment of native woody species is lacking several years after initial restoration activities, the Village should consider supplemental native woody planting.
- Begin long-term management of BMU-1, GMU-3A, GMU-3B, and ITMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 22. Southern Mesic Forest Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Carex blanda	common wood sedge	0.96
Carex normalis	spreading oval sedge	1.83
Carex radiata	curly wood sedge	0.64
Carex sprengelii	long-beaked sedge	0.06
Elymus hystrix	bottlebrush grass	7.42
Elymus villosus	silky wild rye	4.86
Luzula multiflora	common wood rush	0.32
Muhlenbergia mexicana	leafy satin grass	0.38
Forbs		
Allium cernuum	nodding wild onion	0.22
Anemone canadensis	meadow anemone	0.03
Anemone virginiana	Virginia anemone	0.13
Aquilegia canadensis	wild columbine	0.69
Claytonia virginica	spring beauty	0.20
Dicentra cucullaria	dutchman's britches	0.13
Dodecatheon meadia	shooting star	0.38
Eupatorium altissimum	tall boneset	0.96
Eutrochium purpureum	purple joe pye weed	0.64
Geranium maculatum	wild geranium	0.03

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Helianthus strumosus	pale-leaved sunflower	0.03
Heuchera richardsonii	prairie alum root	3.84
Phlox divaricata	blue phlox	1.56
Podophyllum peltatum	may apple	0.03
Polemonium reptans	Jacob's ladder	0.13
Polygonatum biflorum	smooth Solomon's seal	0.06
Rudbeckia triloba	brown-eyed Susan	1.28
Sanguinaria canadensis	bloodroot	0.06
Solidago flexicaulis	broad-leaved goldenrod	0.32
Solidago juncea	early goldenrod	1.28
Solidago ulmifolia	elm-leaved goldenrod	0.95
Symphyotrichum laeve	smooth blue aster	1.98
Thalictrum dasycarpum	purple meadow rue	0.19
Thalictrum thalictroides	rue anemone	0.32
Veronicastrum virginicum	Culver's root	0.06
	Total	**32.00**
Cover Crop		
Elymus canadensis	Canada wild rye	64.00
	Gr. Total	**96.00**

Table 23. Southern Mesic Forest Woody Plant Palette for GMU-3A and GMU-3B

Scientific Name	Common Name	Density (trees/shrubs per acre)
Acer saccharum	sugar maple	20
Carpinus caroliniana	muscle-wood	20
Carya cordiformis	bitternut hickory	20
Corylus americana	hazelnut	20
Hamamelis virginiana	American witch-hazel	20
Prunus americana	wild plum	25
Quercus alba	white oak	15
Quercus macrocarpa	bur oak	15
Quercus rubra	red oak	15
Ribes americanum	American black currant	20
Tilia americana	American basswood	20
Sambucus canadensis	elderberry	20
Ulmus americana	American elm	20
	Total	**250**

Southern Hardwood Swamp

Southern hardwood swamp enhancement is proposed at Babcock Conservancy (1.95 acres), Grand View Conservancy (4.76 acres), Indian Mound/Thrun Marsh Conservancies (4.34 acres), Marsh Woods Conservancy (0.95 acres), and Urso Park (7.33 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in BMU-2 (hardwood swamp portion), GMU-1A-HS, GMU-1B (hardwood swamp portion), ITMU (hardwood swamp portion), MMU-3 (hardwood swamp portion), and UMU-1-HS in winter Year-1. If tree-sized common buckthorn is encountered, it should be removed using chainsaws. Invasive saplings, shrubs, and vines such as common buckthorn, honeysuckle, multi-flora rose, privet, and Asian bittersweet should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting woody invasive species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.

- Herbicides used in southern hardwood swamp areas should be those approved for use in aquatic environments.
- Cut or girdle all boxelder, white mulberry, and black locust trees using chainsaws and treat stumps with herbicide in BMU-2, GMU-1A-HS, GMU-1B, ITMU, MMU-3, and UMU-1-HS in winter Year-1.
- Retain several logs for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily, lily-of-the-valley, reed canary grass, Japanese hedge-parsley, and wild parsnip (*Pastinaca sativa*) with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Large populations of reed canary grass may need to be broadcast-sprayed. Repeat spot-spraying in Year-3 and Year-4.
- Install native trees and shrubs shown in Table 24 in the southern hardwood swamp portions of BMU-2, GMU-1A-HS, GMU-1B, ITMU, MMU-3, and UMU-1-HS once woody invasive species have been adequately controlled in spring/summer Year-3. Broadcast seed these same areas after woody plant installation in fall Year-3 per Table 25. The herbaceous layer may need to be mowed and raked prior to seeding to allow for good seed-soil contact.
- Begin long-term management of BMU-2, GMU-1A-HS, GMU-1B, ITMU, MMU-3, and UMU-1-HS in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 24. Southern Hardwood Swamp Woody Plant Palette

Scientific Name	Common Name	Density (trees/shrubs per acre)
Acer rubrum	red maple	5
Celtis occidentalis	hackberry	10
Cornus amomum	silky dogwood	5
Cornus sericea	red osier dogwood	10
Ilex verticillata	common winterberry	10
Physocarpus opulifolius	ninebark	10
Quercus bicolor	swamp white oak	15
Quercus macrocarpa	bur oak	10
Sambucus canadensis	elderberry	10
Viburnum lentago	nannyberry	15
	Total	**100**

Table 25. Southern Hardwood Swamp Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Calamagrostis canadensis	blue-joint grass	3.00
Carex crinita	fringed sedge	1.00
Carex gracillima	graceful sedge	0.50
Carex grayi	Gray's sedge	0.50
Carex lupulina	hop sedge	0.50
Carex stipata	awl fruited sedge	4.00
Cinna arundinacea	wood reed grass	0.50
Glyceria canadensis	rattlesnake manna grass	1.00
Glyceria striata	fowl manna grass	0.25
Muhlenbergia mexicana	leafy satin grass	0.05
Forbs		
Anemone canadensis	meadow anemone	0.50
Boltonia asteroides	false aster	1.00
Campanulastrum americanum	tall bellflower	0.50

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Clematis virginiana	virgin's bower	0.05
Eutrochium purpureum	purple joe pye weed	1.00
Hypericum ascyron	great St. Johns wort	1.00
Lobelia cardinalis	cardinal flower	0.05
Lysimachia ciliata	fringed loosestrife	0.50
Rosa setigera	savanna rose	0.50
Rudbeckia laciniata	tall coneflower	3.00
Rudbeckia subtomentosa	sweet black-eyed Susan	0.50
Sphenopholis obtusata	prairie wedge grass	0.05
Symphyotrichum lateriflorum	side-flowering aster	0.10
Verbesina alternifolia	wingstem	0.05
Zizia aurea	golden alexanders	0.25
	Total	**20.35**
Cover Crop		
Elymus virginicus	Virginia wild rye	64.00
	Gr. Total	**84.35**

Floodplain Forest

Floodplain forest enhancement is proposed at Yahara River Conservancy (0.69 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in YMU-1 (floodplain forest portion) in winter Year-1. Woody invasive species such as common buckthorn and honeysuckle should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting woody invasive species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Herbicides used in YMU-1 should be those approved for use in aquatic environments.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, reed canary grass, and wild parsnip with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads and moisture levels are adequate, conduct a prescribed burn in YMU-1 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed these same areas in fall Year-2 per Table 26. Excessive debris will need to be removed from around the base of trees to be preserved prior to burning.
- Begin long-term management of YMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 26. Floodplain Forest Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Calamagrostis canadensis	blue-joint grass	1.28
Carex crinita	fringed sedge	1.28
Carex gracillima	graceful sedge	0.96
Carex grayi	Gray's sedge	3.20
Carex lacustris	lake sedge	1.28
Carex lupulina	hop sedge	3.20
Carex stipata	awl fruited sedge	1.28
Carex typhina	cattail sedge	1.28

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Cinna arundinacea	wood reed grass	2.24
Glyceria striata	fowl manna grass	1.28
Leersia oryzoides	rice-cut grass	1.28
Muhlenbergia mexicana	leafy satin grass	1.92
Sphenopholis obtusata	prairie wedge grass	1.28
Forbs		
Acorus americanus	American sweet flag	0.64
Anemone canadensis	meadow anemone	0.32
Boltonia asteroides	false aster	1.92
Campanulastrum americanum	tall bellflower	1.92
Clematis virginiana	virgin's bower	0.32
Eutrochium purpureum	purple joe pye weed	1.28
Helenium autumnale	sneezeweed	0.32
Lobelia cardinalis	cardinal flower	0.64
Lysimachia ciliata	fringed loosestrife	0.32
Rosa setigera	savanna rose	0.32
Rudbeckia laciniata	tall coneflower	0.64
Rudbeckia subtomentosa	sweet black-eyed Susan	0.32
Symphyotrichum lateriflorum	side-flowering aster	0.64
Verbesina alternifolia	wingstem	0.32
Zizia aurea	golden alexanders	0.32
	Total	**32.00**
Cover Crop		
Elymus virginicus	Virginia wild rye	64.00
	Gr. Total	**96.00**

Shrub-carr

Shrub-carr enhancement is proposed at Marsh Woods Conservancy (1.14 acres) and Urso Park (3.82 acres). In addition, 1.79 acres of conifer plantation and old apple orchards at Urso Park are proposed to be converted to shrub-carr. Proposed enhancement/rehabilitation measures include the following:

- Woody invasive species should be removed in MMU-3 (shrub-carr portion), UMU-1-SCE, UMU-1-SCN, and UMU-3 in winter Year-1. Woody invasive species such as common buckthorn, multi-flora rose, and honeysuckle should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting woody invasive species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Herbicides used in shrub-carr wetland areas should be those approved for use in aquatic environments.
- Remove all apple and red pine trees within UMU-3 in winter Year-1. Apple stumps will need to be treated with herbicide. Retain Norway spruce growing along Hidden Farm Road. To help offset costs, the Village could consider conducting timber salvage operations using professional foresters in this area as the red pine may have commercial value.
- Spot-spray non-native, invasive, herbaceous species such as reed canary grass, wild parsnip, and Japanese hedge-parsley with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in MMU-3, UMU-1-SCE, and UMU-1-SCN in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer

in these areas may need to be mowed and raked. Broadcast seed these same areas in fall Year-2 per Table 27.

- Install native shrubs shown in Table 28 in UMU-3 in spring Year-3.
- Begin long-term management of MMU-3, UMU-1-SCE, UMU-1-SCN, and UMU-3 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 27. Shrub-carr Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Calamagrostis canadensis	blue-joint grass	6.40
Carex crinita	fringed sedge	3.20
Carex gracillima	graceful sedge	1.60
Carex grayi	Gray's sedge	3.20
Carex lupulina	hop sedge	1.60
Carex sprengelii	long-beaked sedge	1.60
Carex stipata	awl fruited sedge	1.60
Forbs		
Angelica atropurpurea	great angelica	4.80
Eutrochium maculatum	spotted Joe-pye weed	3.20
Lycopus americanus	water horehound	1.60
Rosa setigera	savanna rose	1.60
Thalictrum dasycarpum	purple meadow rue	1.60
	Total	**32.00**
Cover Crop		
Elymus virginicus	Virginia wild rye	64.00
	Gr. Total	**96.00**

Table 28. Shrub-carr Woody Plant Palette

Scientific Name	Common Name	Density (shrubs per acre)
Aronia melanocarpa	black chokeberry	20
Cornus amomum	silky dogwood	10
Cornus sericea	red osier dogwood	10
Physocarpus opulifolius	ninebark	20
Salix bebbiana	beaked willow	25
Sambucus canadensis	elderberry	25
Spiraea alba	white meadow-sweet	20
Viburnum lentago	nannyberry	20
	Total	**150**

Emergent Marsh

Emergent marsh enhancement is proposed at Babcock Conservancy (4.40 acres), Grand View Conservancy (7.55 acres), Indian Mound/Thrun Marsh Conservancies (4.13 acres), Marsh Woods Conservancy (6.52 acres), Urso Park (5.36 acres), and Yahara River Conservancy (0.36 acres). The emergent marshes on Village property are all dominated by non-native cattail. Broad-scale and aggressive cattail control efforts are only recommended in marshes that are isolated from Lake Waubesa, the Yahara River, and Mud Lake. Emergent marshes that are adjacent to these waters will constantly be subject to propagule pressure from offsite marshes so cattail control in these areas is unlikely to be sustainable in the long-term. Proposed enhancement measures include the following:

- Treat invasive species such as common reed (*Phragmites australis* ssp. *australis*), reed canary grass,

and purple loosestrife in the emergent zones of BMU-2, MMU-3, and YMU-with an herbicide approved for use in aquatic environments in spring/summer Year-2. Repeat this process in Year-3 and Year-4.

- Broadcast-spray narrow-leaved cattail, reed canary grass, purple loosestrife and other invasive species with an herbicide approved for use in aquatic environments in the emergent zones of GMU-1A-EM, GMU-1B, and ITMU-2 in spring/summer Year-2. Spot-treat narrow-leaved cattail in UMU-1-EM in spring/summer Year-2. Conduct follow-up spot treatments in summer Year-2 and continue spot treatments in GMU-1A-EM, GMU-1B, ITMU-2, and UMU-1-EM in Year-3 and Year-4.
- Conduct prescribed burns in emergent portions of GMU-1A-EM, GMU-1B, and ITMU-2, and UMU-1-EM fall Year-2 to prepare the soil for native seeding. Broadcast seed these areas after burning in fall Year-2 per Table 29.
- Install emergent plant plugs per Table 17 in spring Year-3 within the emergent zones of GMU-1A-EM, GMU-1B, and ITMU-2, and UMU-1-EM.
- Begin long-term management of BMU-2, GMU-1A-EM, GMU-1B, ITMU-2, MMU-3, UMU-1-EM, and YMU-1 in winter Year-4. This would include annual spot-spraying of invasive species and supplemental native seed/plant installation as needed.

Table 29. Emergent Marsh Plant Palette

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)	Planting Density (plants per acre)
Graminoids			
Carex lacustris	lake sedge	0.00	100
Carex comosa	longhair sedge	2.40	
Carex stipata	owl-fruited sedge	0.96	
Carex vulpinoidea	fox sedge	5.28	
Juncus effusus	soft rush	0.96	
Leersia oryzoides	rice-cut grass	2.40	
Scirpus cyperinus	woolgrass	4.80	100
Scirpus fluviatilis	river bulrush	0.00	150
Schoenoplectus tabernaemontani	soft-stem bulrush	0.96	100
Forbs			
Alisma subcordatum	water plantain	7.68	
Asclepias incarnata	marsh milkweed	1.44	
Iris virginica	Virginia iris	9.60	100
Pontederia cordata	pickerel weed	0.00	100
Rumex orbiculatus	water dock	1.44	
Sagittaria latifolia	arrowhead	2.40	
Sparganium eurycarpum	giant bur reed	7.68	150
	Total	**48.00**	**800**

Pond Shoreline

Shoreline enhancement is proposed for the areas surrounding the ponds at Grand View Conservancy (0.68 acres) and Urso Park (0.09 acres). Pond shoreline will be enhanced as follows:

- After initial invasive species control efforts are completed per recommendations for the emergent marsh portion of GMU-1B and the shrub-carr portion of UMU-1 above, install emergent plant plugs per Table 30 in spring Year-3 within the shoreline enhancement zones of Grandview Commons and Urso Park.
- Spot-spray non-native, invasive, herbaceous species such as red canary grass with herbicide approved for use in aquatic environments throughout the growing season starting in summer Year-3. Repeat spot-spraying in Year-4.
- Begin long-term management of the shoreline enhancement zones in winter Year-4. This would include annual spot-spraying of invasive species and supplemental native seed/plant installation as needed.

Table 30. Pond Shoreline Plant Palette

Scientific Name	Common Name	Planting Density (plants per acre)
Graminoids		
Carex crinita	fringed sedge	150
Carex lacustris	lake sedge	150
Juncus effusus	soft rush	200
Leersia oryzoides	rice-cut grass	300
Scirpus cyperinus	woolgrass	200
Scirpus fluviatilis	river bulrush	300
Schoenoplectus tabernaemontani	soft-stem bulrush	200
Forbs		
Alisma subcordatum	water plantain	200
Asclepias incarnata	marsh milkweed	200
Iris virginica	Virginia iris	200
Pontederia cordata	pickerel weed	200
Rumex orbiculatus	water dock	200
Sagittaria latifolia	arrowhead	200
Sparganium eurycarpum	giant bur reed	300
	Total	**3,000**

Southern Sedge Meadow

Southern sedge meadow enhancement is proposed at Marsh Woods Conservancy (8.98 acres) and Urso Park (3.40 acres). Minimal work is proposed for the existing high-quality sedge meadow at Marsh Woods Conservancy and more aggressive efforts will be required to convert the degraded wet meadows at Marsh Woods Conservancy and Urso Park to sedge meadow. Proposed enhancement measures include the following:

- Any woody invasive species in sedge meadow enhancement areas should be removed in winter Year-1 using brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal.
- Broadcast spray reed canary grass in spring and late-summer Year-2 using herbicide approved for use in aquatic settings in the wet meadow portions of Urso Park and Marsh Woods Conservancy.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle and wild parsnip with

herbicide approved for use in aquatic environments throughout the growing season starting in spring Year-2. Repeat spot-spraying in Year-3 and Year-4.

- Where fuel loads are adequate, conduct prescribed burns in MMU-3, UMU-1-WMN, and UMU-1-WMS in fall Year-2 to prepare the soil for native seeding. Exclude the existing sedge meadow area at Marsh Woods Conservancy which is already dominated by native sedges. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed MMU-3, UMU-1-WMN, and UMU-1-WMS, excluding the existing sedge meadow in MMU-3, in fall Year-2 per Table 31. Install hairy fruit sedge (*Carex trichocarpa*) and tussock sedge (*Carex stricta*) plugs in clusters throughout MMU-3, UMU-1-WMN, and UMU-1-WMS, excluding the existing sedge meadow in MMU-3, in spring Year-3 per Table 31.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of MMU-3, UMU-1-WMN, and UMU-1-WMS in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 31. Southern Sedge Meadow Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)	Planting Density (plants per acre)
Graminoids			
Calamagrostis canadensis	blue-joint grass	0.50	
Carex bebbii	Bebb's sedge	3.00	
Carex buxbaumii	Buxbaum's sedge	1.00	
Carex comosa	longhair sedge	2.00	
Carex hystericina	bottlebrush sedge	4.00	
Carex pellita	broad-leaved woolly sedge	1.00	
Carex scoparia	broom sedge	3.00	
Carex stipata	owl-fruited sedge	1.00	
Carex stricta	tussock sedge	0.00	50
Carex trichocarpa	hairy fruit sedge	0.00	50
Carex vulpinoidea	fox sedge	4.00	
Glyceria striata	fowl manna grass	0.05	
Scirpus atrovirens	dark green bulrush	0.50	
Forbs			
Acorus americanus	American sweet flag	1.00	
Allium cernuum	nodding wild onion	0.25	
Anemone canadensis	meadow anemone	0.25	
Angelica atropurpurea	great angelica	1.00	
Arnoglossum plantagineum	prairie Indian plantain	1.00	
Asclepias incarnata	swamp milkweed	1.00	
Chelone glabra	turtlehead	0.50	
Cicuta maculata	water hemlock	0.50	
Doellingeria umbellata	flat-topped aster	0.50	
Eupatorium perfoliatum	common boneset	0.50	
Euthamia graminifolia	grass-leaved goldenrod	0.25	
Eutrochium maculatum	Joe pye-weed	0.25	
Gentiana andrewsii	bottle gentian	0.25	
Helianthus grosseserratus	sawtooth sunflower	0.50	
Hypericum ascyron	great St. John's wort	0.50	
Iris virginica	blue flag iris	0.25	
Liatris pycnostachya	prairie blazing star	0.50	

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)	Planting Density (plants per acre)
Lobelia siphilitica	great blue lobelia	0.25	
Lycopus americanus	American water horehound	0.50	
Lythrum alatum	winged loosestrife	0.25	
Mentha arvensis	wild mint	0.50	
Physostegia virginiana	prairie obedient plant	0.25	
Pycnanthemum virginianum	Virginia mountain mint	0.25	
Senna hebecarpa	wild senna	0.50	
Silphium perfoliatum	cup-plant	0.50	
Solidago gigantea	late goldenrod	0.25	
Solidago ohioensis	Ohio goldenrod	0.25	
Solidago riddellii	Riddell's goldenrod	0.25	
Spartina pectinata	prairie cord grass	1.00	
Symphyotrichum novae-angliae	New England aster	0.50	
Symphyotrichum puniceum	marsh aster	0.25	
Thalictrum dasycarpum	purple meadow rue	0.50	
Verbena hastata	blue vervain	0.25	
Vernonia fasciculata	common ironweed	0.25	
Veronicastrum virginicum	Culver's root	0.05	
Zizia aurea	golden alexanders	0.50	
	Total	**36.10**	**100**
Cover Crop			
Elymus virginicus	Virginia wild rye	64.00	
	Gr. Total	**100.10**	**100**

Wet Prairie

Wet prairie enhancement is proposed at Grand View Conservancy (3.86 acres). This work will involve converting existing wet meadow dominated by reed canary grass to native wet prairie. Proposed enhancement measures include the following:

- Any woody invasive species present in the wet meadow portion of GMU-1A should be removed in winter Year-1 using brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal.
- Broadcast spray reed canary grass in spring and late-summer Year-2 using herbicide approved for use in aquatic settings in the wet meadow portion of GMU-1A.
- Where fuel loads are adequate, conduct prescribed burns in the wet meadow portion of GMU-1A in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed this area in fall Year-2 per Table 32.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Spot-spray non-native, invasive, herbaceous species such as wild parsnip with herbicide approved for use in aquatic environments throughout the growing season starting in spring Year-3. Repeat spot-spraying in Year-4.
- Begin long-term management of the wet meadow portion of GMU-1A in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 32. Wet Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Calamagrostis canadensis	Canada blue-joint grass	4.11
Carex annectens	yellow-fruited sedge	2.00
Carex bebbii	Bebb's sedge	2.23
Carex scoparia	pointed broom sedge	2.23
Carex stipata	awl fruited sedge	2.51
Carex vulpinoidea	fox sedge	2.51
Scirpus atrovirens	dark green bulrush	1.00
Spartina pectinata	prairie cordgrass	1.95
Forbs		
Asclepias incarnata	marsh milkweed	1.00
Angelica atropurpurea	great angelica	1.00
Bidens cernua	nodding bur marigold	2.00
Boltonia asteroides	false aster	1.12
Eupatorium perfoliatum	boneset	0.25
Euthamia graminifolia	grass-leaved goldenrod	0.05
Eutrochium maculatum	Joe pye-weed	0.25
Helianthus grosseserratus	sawtooth sunflower	0.50
Iris virginica	Virginia iris	0.50
Liatris spicata	marsh blazing star	0.25
Lythrum alatum	winged loosestrife	0.05
Pycnanthemum virginianum	Virginia mountain mint	0.05
Senna hebecarpa	wild senna	0.50
Silphium perfoliatum	cup plant	0.50
Solidago riddellii	Riddell's goldenrod	0.05
Symphyotrichum lanceolatum	panicle aster	0.05
Symphyotrichum novae-angliae	New England aster	0.25
Symphyotrichum puniceum	red-stem aster	0.05
Verbesina alternifolia	wingstem	0.05
Vernonia fasciculata	common ironweed	0.25
Veronicastrum virginicum	Culver's root	0.13
Zizia aurea	golden alexanders	0.50
	Total	**27.90**
Cover Crop		
Elymus virginicus	Virginia wild rye	64.00
	Gr. Total	**91.90**

Wet-mesic Prairie

Wet-mesic prairie enhancement is proposed at Grand View Conservancy (1.89 acres). Proposed enhancement measures include the following:

- Woody invasive species dominating the wet-mesic portion of GMU-1A are found mostly in the herbaceous layer due to recent mowing. Resprouting woody invasive species should be broadcast or spot-sprayed with herbicide approved for use in aquatic environments in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Spot-spray non-native, invasive, herbaceous species such as wild parsnip with herbicide approved for use in aquatic environments throughout the growing season starting in spring Year-2. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in the wet meadow portion of GMU-1A

in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed this area in fall Year-2 per Table 33.

- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of the wet-mesic prairie portion of GMU-1A in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 33. Wet-mesic Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Andropogon gerardii	big bluestem	7.60
Calamagrostis canadensis	Canada blue-joint grass	1.90
Carex annectens	yellow-fruited sedge	4.54
Carex brevior	short beak sedge	3.33
Carex molesta	field oval sedge	4.75
Carex normalis	spreading oval sedge	4.75
Carex scoparia	pointed broom sedge	4.75
Carex vulpinoidea	fox sedge	4.56
Panicum virgatum	switch grass	8.55
Scirpus atrovirens	dark green bulrush	3.33
Spartina pectinata	prairie cordgrass	2.85
Forbs		
Allium cernuum	nodding wild onion	2.76
Anemone canadensis	meadow anemone	2.34
Arnoglossum plantagineum	prairie Indian plantain	2.63
Asclepias incarnata	marsh milkweed	3.42
Baptisia alba	white wild indigo	0.95
Bidens frondosa	common beggar-ticks	1.05
Boltonia asteroides	false aster	0.95
Bromus kalmii	Arctic brome	5.51
Desmodium canadense	Canada tick trefoil	2.76
Eryngium yuccifolium	rattlesnake master	0.95
Eupatorium perfoliatum	boneset	0.95
Eutrochium maculatum	Joe pye-weed	0.95
Helenium autumnale	sneezeweed	0.83
Helianthus grosseserratus	sawtooth sunflower	0.76
Heliopsis helianthoides	early sunflower	0.95
Hypericum ascyron	great St. John's wort	0.95
Lathyrus palustris	marsh vetch	0.10
Liatris spicata	marsh blazing star	1.62
Lycopus americanus	water horehound	0.48
Lythrum alatum	winged loosestrife	0.05
Pycnanthemum virginianum	Virginia mountain mint	0.95
Senna hebecarpa	wild senna	1.71
Silphium laciniatum	compass plant	0.95
Silphium perfoliatum	cup plant	0.29
Silphium terebinthinaceum	prairie dock	0.95
Solidago riddellii	Riddell's goldenrod	0.95
Symphyotrichum lanceolatum	panicle aster	0.29
Symphyotrichum novae-angliae	New England aster	1.43
Symphyotrichum puniceum	red-stem aster	0.29
Thalictrum dasycarpum	purple meadow rue	1.33
Tradescantia ohiensis	spiderwort	0.23

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Verbena hastata	blue vervain	1.09
Vernonia fasciculata	common ironweed	0.86
Veronicastrum virginicum	Culver's root	0.17
Zizia aurea	golden alexanders	1.71
	Total	**95.00**
Cover Crop		
Elymus virginicus	Virginia wild rye	64.00
	Gr. Total	**159.00**

Mesic Prairie

Mesic prairie enhancement is proposed at Grand View (5.66 acres) and Marsh Woods Conservancies (6.20 acres). The existing mesic prairie communities in GMU-2A and MMU-2 will require less work than the surrogate grassland and invaded mesic prairie communities in GMU-2B and MMU-2. Proposed enhancement measures are as follows:

- Woody invasive species should be removed in GMU-2A, GMU-2B, and MMU-2 in winter Year-1. Small/scattered patches of invasive shrubs such as common buckthorn, honeysuckle, multi-flora rose (*Rosa multiflora*), and autumn olive (*Elaeagnus umbellata*) should be cut with brushcutters or chainsaws. Dense and extensive populations of invasive shrubs, such as those in GMU-2B should be removed via forestry mower. Retain patches of gray dogwood in GMU-2B for bird habitat. Cut stumps should be spot-treated with herbicide immediately after removal. In areas that are forestry mowed, broadcast-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- In MMU-2, broadcast-spray the initial flush of cool-season grasses in early spring Year-2 with a grass-specific herbicide prior to the first flush of warm season vegetation.
- Spot-spray non-native, invasive, herbaceous species such as reed canary grass and wild parsnip with herbicide throughout the growing season starting in spring Year-2 in GMU-2A, GMU-2B, and MMU-2. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in GMU-2A, GMU-2B, and MMU-2 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed these areas in fall Year-2 per Table 34. Debris left over from forestry mowing in GMU-2B may need to be removed prior to seeding if it will inhibit seed/soil contact.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of GMU-2A, GMU-2B, and MMU-2 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 34. Mesic Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Andropogon gerardii	big bluestem	7.86
Bouteloua curtipendula	side oats grama	31.84
Carex bicknellii	Bicknell's sedge	2.07
Carex molesta	field oval sedge	2.07
Panicum virgatum	switch grass	8.00
Schizachyrium scoparium	little bluestem	31.84
Sorghastrum nutans	Indian grass	8.00
Forbs		
Allium cernuum	nodding wild onion	4.00
Asclepias syriaca	common milkweed	4.00
Asclepias tuberosa	butterfly weed	4.00
Chamaecrista fasciculata	partridge pea	8.00
Coreopsis palmata	prairie coreopsis	0.50
Dalea purpurea	purple prairie clover	4.00
Desmodium canadense	Canada tick trefoil	4.00
Echinacea pallida	pale purple coneflower	3.01
Hypericum ascyron	great St. John's wort	0.10
Monarda fistulosa	wild bergamot	1.01
Pycnanthemum tenuifolium	slender mountain mint	0.50
Ratibida pinnata	yellow coneflower	4.00
Rudbeckia hirta	black-eyed Susan	4.00
Rudbeckia subtomentosa	sweet black-eyed Susan	0.50
Silphium laciniatum	compass plant	0.50
Silphium terebinthinaceum	prairie dock	0.50
Solidago juncea	early goldenrod	0.25
Solidago rigidum	stiff goldenrod	0.25
Solidago speciosa	showy goldenrod	0.50
Symphyotrichum laeve	smooth blue aster	0.50
Symphyotrichum novae-angliae	New England aster	0.50
Symphyotrichum oolentangiense	sky-blue aster	0.50
Tradescantia ohiensis	spiderwort	0.33
Verbena stricta	hoary vervain	0.25
Veronicastrum virginicum	Culver's root	0.05
Zizia aurea	golden alexanders	0.50
	Total	**137.90**
Cover Crop		
Elymus canadensis	Canada wild rye	64.00
	Gr. Total	**201.90**

Dry-mesic Prairie

Conversion of 1.20 acres of woody-invaded surrogate grassland to dry-mesic prairie at Taylor Road Conservancy is proposed in TMU-2. Proposed restoration measures are as follows:

- Woody invasive shrubs such as honeysuckle, common buckthorn, and smooth sumac should be removed using brushcutters or chainsaws in TMU-2 in winter Year-1. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive shrubs in Year-3 and Year-4.
- Extensive tree removal is proposed for TMU-2 in order to convert these areas to dry-mesic prairie. Remove all black walnut, white mulberry, white ash (*Fraxinus americana*), and cottonwood trees

using chainsaws and treat stumps with herbicide in winter Year-1. Spot-treat resprouting trees with herbicide in Year-2 and Year-3. To help offset tree removal costs, the Village could consider conducting timber salvage operations using professional foresters as some of these trees could have commercial value. Due to the steep slopes in these areas, it is not recommended to create or maintain any snags.

- Spot-spray the initial flush of cool-season grasses in early spring Year-2 with a grass-specific herbicide prior to the first flush of warm season vegetation.
- Spot-spray non-native, invasive, herbaceous species such as reed canary grass, crown vetch, and spotted knapweed (*Centaurea stoebe*), with herbicide throughout the growing season starting in spring Year-2 in TMU-2. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in TMU-2 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer should be mowed, raked, and removed. Broadcast seed these areas in fall Year-2 per Table 35.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of TMU-2 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 35. Dry-mesic Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
Andropogon gerardii	big bluestem	7.72
Bouteloua curtipendula	side oats grama	30.89
Carex bicknellii	Bicknell's sedge	2.07
Panicum virgatum	switch grass	5.52
Schizachyrium scoparium	little bluestem	30.89
Sorghastrum nutans	Indian grass	8.00
Sporobolus heterolepis	prairie dropseed	0.80
Forbs		
Allium cernuum	nodding wild onion	3.81
Asclepias tuberosa	butterfly weed	2.76
Asclepias verticillata	whorled milkweed	2.07
Chamaecrista fasciculata	partridge pea	7.17
Coreopsis palmata	prairie coreopsis	0.50
Dalea purpurea	purple prairie clover	4.00
Drymocallis arguta	prairie cinquefoil	8.27
Echinacea pallida	pale purple coneflower	3.01
Eryngium yuccifolium	rattlesnake master	1.38
Heliopsis helianthoides	early sunflower	1.38
Lupinus perennis	wild lupine	1.38
Monarda fistulosa	wild bergamot	1.01
Pycnanthemum tenuifolium	slender mountain mint	4.83
Rudbeckia hirta	black-eyed Susan	4.90
Rudbeckia subtomentosa	sweet black-eyed Susan	0.50
Solidago nemoralis	old-field goldenrod	3.01
Symphyotrichum laeve	smooth blue aster	0.50
Symphyotrichum oolentangiense	sky-blue aster	0.50
Tradescantia ohiensis	spiderwort	0.33

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Verbena stricta	hoary vervain	0.25
Zizia aurea	golden alexanders	0.50
	Total	**137.90**
Cover Crop		
Elymus canadensis	Canada wild rye	64.00
	Gr. Total	**201.90**

Conifer Plantation

There are two conifer plantations that are not currently recommended to be removed and converted to other habitat types: the conifer plantation at Taylor Road Conservancy (1.94 acres), and the western conifer plantation along Hidden Farm Road in Urso Park (0.31 acres). Work proposed in these areas is minimal and includes the following:

- Woody invasive shrubs such as honeysuckle and common buckthorn should be removed using brushcutters or chainsaws in TMU-1 and the western conifer plantation in UMU-3 in winter Year-1. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive shrubs in Year-3 and Year-4.
- Remove all boxelder and white mulberry trees using chainsaws and treat stumps with herbicide in winter Year-1. Spot-treat resprouting trees with herbicide in Year-2 and Year-3.
- Spot-spray lily-of-the-valley, crown vetch, and other invasive herbaceous species with herbicide in spring and summer Year-2. Repeat this process in Year-3 and Year-4.
- Begin long-term management of TMU-1 and the western conifer plantation in UMU-3 in winter Year-4. This would include annual spot-spraying of invasive species as needed.
- A timber harvest should be considered for TMU-1 in approximately 20 years when the trees reach harvest age. Conversion of this area to oak woodland should be considered at that time.

Implementation Schedule

Tables 36-44 summarize idealized restoration implementation schedules. Table 45 presents a five-year plan for Village-identified priority areas that the Village intends on restoring in the short-term. Schedules are subject to change based on funding, scheduling, and staffing constraints.

Table 36. Babcock Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	**BMU-1 (0.57 acres)**													
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	**BMU-2 (1.95 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Emergent Marsh	**BMU-2 (4.40 acres)**													
	Spot-spray reed canary grass and purple loosestrife		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 37. Grand View Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	**GMU-3A (4.31 acres)**													
	Woody invasive forestry mowing, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Maintenance mowing						X	X			X	X		
	Long-term management													X
	GMU-3B (2.89 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Maintenance mowing						X	X			X	X		
	Long-term management													X
Southern Hardwood Swamp	**GMU-1A-HS, GMU-1B (4.76 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Native seed installation								X					
	Long-term management													X
Emergent Marsh	**GMU-1A-EM, GMU-1B (7.55 acres)**													
	Broadcast-spray herb stratum		X											
	Spot-herbicide treatments - herb stratum			X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Long-term management													X
Pond Shoreline	**GMU-1B (0.68 acres)**													
	Native plant installation						X							
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Wet Prairie	**GMU-1A-WM (3.86 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray reed canary grass		X	X										
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Wet-mesic Prairie	**GMU-1A-WM (1.89 acres)**													
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X
Mesic Prairie	**GMU-2A (2.45 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X
	GMU-2B (3.21 acres)													
	Woody invasive forestry mowing, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 38. Indian Mound/Thrun Marsh Conservancies Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Dry-mesic Forest	**ITMU-1 (11.87 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Mesic Forest	**ITMU-1 (1.71 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	**ITMU-2 (4.34 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Emergent Marsh	**ITMU-2 (4.13 acres)**													
	Broadcast-spray herb stratum		X											
	Spot-herbicide treatments - herb stratum			X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Long-term management													X

Note: Schedule subject to change.

Table 39. Marsh Woods Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**MMU-1 (4.47 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	**MMU-3 (0.95 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Shrub-carr	**MMU-3 (1.14 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Emergent Marsh	**MMU-3 (6.52 acres)**													
	Spot-spray common reed, reed canary grass, and purple loosestrife		X	X			X	X			X	X		
	Long-term management													X
Southern Sedge Meadow	**MMU-3 (Existing Wet Meadow Area) (1.73 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray reed canary grass		X	X										
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Maintenance mowing						X	X			X	X		
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
	MMU-3 (Existing High-Quality Sedge Meadow) (7.25 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X
Mesic Prairie	**MMU-2 (Existing Surrogate Grassland Area) (5.10 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray non-native, cool season grasses		X											
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Long-term management													X
	MMU-2 (Existing Mesic Prairie) (1.10 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 40. Siggelkow Road Park Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**SMU-1 (3.82 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Long-term management													X

Note: Schedule subject to change.

Table 41. Taylor Road Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Dry-mesic Prairie	**TMU-2 (1.20 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree removal	X												
	Spot- or broadcast-spray non-native, cool season grasses		X											
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X
Conifer Plantation	**TMU-1 (1.94 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 42. Urso Park Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**UMU-2 (7.91 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	**UMU-1-HS (7.33 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Shrub-carr	**UMU-1-SCE, UMU-1-SCN (3.82 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
	UMU-3 (East Conifer Plantation & Orchard) (1.79 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native shrub installation						X							
	Long-term management													X
Emergent Marsh	**UMU-1-EM (5.36 acres)**													
	Spot-treat non-native cattail		X											
	Spot-herbicide treatments - herb stratum			X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Long-term management													X
Pond Shoreline	**UMU-1-SCE (0.09 acres)**													
	Native plant installation						X							
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Southern Sedge Meadow	**UMU-1-WMN, UMU-1-WMS (3.40 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray reed canary grass		X	X										
	Prescribed burning				X									
	Native seed installation				X									

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Native plant installation						X							
	Maintenance mowing						X	X			X	X		
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Conifer Plantation	**UMU-3 (West Conifer Plantation) (0.31 acres)**													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 43. Woodland Commons Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**WMU-1 (5.16 acres)**													
	Woody invasive forestry mowing, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Maintenance mowing						X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 44. Yahara River Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Floodplain Forest	**YMU-1 (0.69 acres)**													
	Woody invasive forestry mowing, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Emergent Marsh	**YMU-1 (0.36 acres)**													
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 45. Five-Year Priority Area Implementation Schedule

Budget Year	Management Unit	Activity	Reasoning for Priority
2024	GMU-3A	Woody invasive forestry mowing, stump treatments	Trees in this unit are in severe decline creating hazards to adjoining properties
2024	GMU-3A	Tree girdling/removal	
2025	GMU-3B	Woody invasive hand removal, stump treatments	Trees in this unit are in severe decline creating hazards to adjoining properties
2025	GMU-3B	Tree girdling/removal	
2026	ITMU-2	Woody invasive hand removal, stump treatments	High-use area – area used for educational purposes by the school district
2026	ITMU-2	Tree girdling/removal	
2027/2028	WMU-1	Woody invasive forestry mowing, stump treatments	Property severely invaded by non-native trees and shrubs
2027/2028	WMU-1	Tree girdling/removal	

Adaptive Management

Adaptive management is defined as the day to day, season to season refinements in restoration programming needed to achieve success against the performance criteria. Any adaptive refinements are an anticipated, normal process on restoration projects. Restoration programs require flexibility because of temporal and spatial variability exhibited by natural systems. Adaptive management affords the Village the option to take advantage of the latest scientific and technological techniques for successful restoration.

This CMP is a starting point in an ongoing process of restoring the Village's conservancies biodiversity and natural processes. Regular monitoring will provide feedback on the CMP's effectiveness and will generate information to evaluate and justify the need for changes. Adaptive management is a fundamental tool for use in the restoration, management, and maintenance work.

If needed, potential remedial actions include over-seeding of low diversity or poorly growing areas with native seed collected onsite or nearby or purchased from an outside vendor, use of equipment and vehicles to conduct seeding and woody species replacement, using appropriate methods needed for stabilizing slopes with cover crop and other typical slope protection strategies such as erosion blanketing, limited rock placement, straw bale use, and installation of water deterrence barriers to prevent/stop erosion.

Other Management Considerations

Several conservancies have opportunities for ecological improvement that do not involve vegetation manipulation. For instance, there is significant erosion present at Indian Mound/Thrun Marsh Conservancies caused by stormwater runoff. There are also historic hydrologic modifications at several of the conservancies that are impeding ecological recovery and impairing wetland function. These items are discussed briefly below for the purpose of introducing the problem and potential solutions; however, fully developed conceptual plans have not been developed for these topics as that is outside the scope of this CMP.

Indian Mound Conservancy Stormwater Solutions

Gully Erosion

Several potential solutions exist to permanently repair the severe gully erosion present immediately north of Thrun Marsh. One highly engineered and less desirable solution is to regrade the channel to a stable geometry and then hard armor the entire conveyance with rip rap. This would halt additional erosion from occurring and eliminate sediment entering the downslope wetland. The disadvantage to this approach is it would be aesthetically unappealing and have little biological or ecological value.

A more aesthetic and ecologically sound approach involves creating a step pool system within the highly eroded gully. The erosive force of stormwater exiting the concrete pipe outfall has caused the downstream channel to down-cut triggering a cycle of bank failure, channel widening, and further incision. Over time, the high flows have moved suspended sediment downslope and deposited it within the existing wetland. Thick brush has taken over the area, choking out valuable low-growing herbaceous species that provide soil-stabilizing root systems. Without intervention, further soil erosion will persist, increasing the cost to restore the area.

The step pool design would include regrading the existing banks to raise the channel bottom and reduce bank height and slope. A series of step pools installed at increments along the length of the feature would provide energy-dissipation in the channel from the outfall downslope to the existing trail crossing. By reducing velocity, the pools will promote deposition of sediment originating from the storm sewer system, helping to maintain the channel elevation and reduce sedimentation in the existing wetland. Stone or

boulder riffles/weirs would stabilize the channel above and below the pools to maintain grade, trap sediment, and reduce runoff velocity. Revegetating the banks with native herbaceous species will stabilize the soil matrix above the pool and stone areas.

In addition to repair of the stormwater conveyance channel, RES recommends constructing a shallow wetland scrape to restore historic grades at the mouth of the conveyance. Several feet of sediment that has deposited in the wetland from the eroded uplands has created an alluvial fan (sediment mound) in this location. Removal of this sediment would eliminate invasive species in this area, restore the natural hydrologic regime, increase water storage capacity of the wetland, allow for restoration of historic plant communities, and improve water quality and wildlife habitat. Additional shallow scrapes could be excavated in other strategic locations within the marsh to provide additional benefits to water quality and habitat value.

Hiking Trail Rill Erosion

There are also several potential stormwater solutions for the severe rill erosion on the hiking trails in the eastern portion of Indian Mound Conservancy that is being caused by stormwater runoff from Indian Mound Middle School. However, these solutions would need to be implemented on the school property as that is the source of the issue. One solution is appropriately placed rain gardens. Rain gardens are easily installed, small, shallow depressions planted with native wetland and prairie vegetation (rather than turfgrass) that intercept sheet flow and infiltrate it into the ground. Rain gardens are effective in community areas in reducing runoff and soil erosion and promoting water infiltration into the soil.

Bioretention areas are soil- and plant-based stormwater management practices that filter runoff from developed sites by mimicking natural vegetated systems. These naturally control hydrology through infiltration and evapotranspiration. A typical application for a bioretention area is to infiltrate and treat surface runoff from parking lots, in which the bioretention area may consist of a recessed, slotted-curb parking island. Bioretention areas are small, vegetated depressions into which surface water is diverted. Stormwater flows into the bioretention area, ponds on the surface, and gradually infiltrates into the soil. Pollutants are removed by processes that include adsorption, filtration, volatilization, ion exchange, and decomposition. Treated water is allowed to infiltrate into the surrounding soil, or is collected by an underdrain system and discharged to the stormwater system or directly to receiving waters.

Vegetated swales or bioswales are shallow and gently sloped conveyances vegetated with native species. Swales have gently sloping sides and are used to convey the overland flow of stormwater down a subtle gradient. Swales accomplish many of the same functions provided by filter strips (slowing and cleaning water and promoting infiltration), while also providing directed conveyance. This conveyance function is particularly important when managing concentrated flows and during severe storm events when stormwater needs to be directed to a destination, such as a wetland. Swales should be designed with native species and can be augmented with check dams and other techniques to maximize their effectiveness at managing stormwater.

Filter strips are small, gently sloping, vegetated strips of land that slow overland flow of stormwater and promote infiltration. Depending on the type of vegetation and the size of the filter strip, effectiveness of these features varies. Filter strips with dense, tall, native vegetation can remove up to 80% of suspended solids. Filter strips utilizing grass only, particularly turf grass, are much less effective in slowing water and/or removing solids. If the filter strip is constructed with porous media in which water will readily infiltrate, the removal capability for sediments and pollutants will be as high as 98%.

Rain catchment systems are the last stormwater solution discussed for the middle school. Connecting roof downspouts to rain barrels is a highly effective method to separate roof runoff from sewer system. So long as the downspouts discharge into a suitable receiving area, there can be several variations of rain barrel design. Rain barrels can be connected to water holding containers located elsewhere on the site, or controlled to gradually irrigate an entire area over time, allowing for slow infiltration and reducing water velocities that would otherwise erode adjacent soils.

Urso Park and Grand View Conservancy Hydrology Restoration and Drainage Improvement

Hydrologic modifications at Urso Park and Grand View Conservancy present opportunities to restore the natural hydrologic regimes to these areas. This could be accomplished via stream re-meandering and/or wetland scrape construction. Hydrology restoration is the key to controlling invasive species and successfully restoring historic wetland ecosystems.

Both conservancies contain human-made ditches that are lowering the water tables in the adjacent wetlands and allowing for the proliferation of invasive reed canary grass. Depending on stream history and permitting constraints, re-meandering the streams to their historic course and reconnecting their floodplains may be an appropriate restoration approach. This would simultaneously reduce flooding in the area and restore a more natural hydrologic regime for adjacent wetlands.

One or more shallow wetland scrapes could be excavated in the northern portion of Grand View Conservancy (north of Creamery Road). The scrape would restore historic grades in this area which would eliminate invasive species, restore the natural hydrologic regime, increase water storage capacity of the wetland and reduce flooding, allow for restoration of historic plant communities, and improve water quality and wildlife habitat. Scrape design should follow NRCS scrape specifications (WDNR 2022).

Additional in-depth studies would need to be undertaken to determine the best hydrology restoration treatments for each site and potential offsite impacts. If hydrology restoration is pursued at any of the conservancies, those measures should be completed prior to vegetation restoration activities.

Regulatory Considerations

Wetlands, Waterways, and Floodplains

Wetland restoration activities requiring earthwork within existing wetlands such as wetland scrapes would likely require permits from the U.S. Army Corps of Engineers (USACE), WDNR, and potentially other local agencies. This work would likely qualify for a USACE Nationwide Permit 27 for Aquatic Habitat Restoration or similar permit, as well as a WDNR Wetland Conservation General Permit or similar permit. Local permits may also be required through the County and/or Village. Pre-application meetings with USACE, WDNR, and other relevant agencies should be held early in the planning/permitting phase of any project to ensure the proper permits are sought. Official wetland delineations will likely be required in areas where earthwork is proposed.

The eroded gully immediately north of Thrun Marsh may be considered a regulated waterway by the WDNR and/or USACE. This would need to be confirmed by an official wetland/waterway delineation and confirmation with the WDNR. If the erosional feature is considered regulatory, the repair could likely be designed to meet the eligibility requirements of a WDNR Streambank Erosion Control – Integrated Bank Treatment General Permit and a USACE Nationwide Permit 13 for Bank Stabilization.

Projects requiring federal permits are subject to National Historic Preservation Act Section 106 review.

Cultural resources investigations may therefore be required in areas subject to ground disturbance. Federal projects are also subject to the Endangered Species Act (ESA) Section 7 review.

Lastly, grading activities proposed within Federal Emergency Management Agency (FEMA) regulatory floodplains typically require floodplain development permits from counties or municipalities. Portions of Babcock, Marsh Woods, and Yahara River Conservancies are located within regulatory special flood hazard areas.

Stormwater and Erosion Control

If any earthwork footprint would exceed 1 acre, a Notice of Intent (NOI) would need to be filed to request coverage under Wisconsin's Construction Site Storm Water Runoff General Permit. Erosion control permits are also usually required at the County or municipal level.

Native American Mounds

McFarland's Native American Mound Policy states that no ground disturbing activities are allowed anywhere within Indian Mound Conservancy. This should be confirmed with the Wisconsin Historical Society because portions of this conservancy are in need of erosion repair that would require land disturbance. Per Native American Mound Policy, any activities that may cause ground disturbance on or near mounds within the Village conservancies requires prior approval from the Wisconsin Historical Society.

Vegetation on and in the vicinity of Native American mounds should be managed in accordance with the Village's Native American Mound Policy. Mechanized equipment such as forestry mowers should not be used to remove shrubs or trees on or within 15 feet of mounds. Therefore, vegetation clearing on or within 15 feet of the mounds should be conducted using hand equipment such as brushcutters and chainsaws. Trees should not be felled on or dragged across mounds. All cut woody materials should be removed from within 15 feet of the mounds. Roots of mature woody vegetation should be left in place to minimize ground disturbance. No machinery is permitted on slopes steeper than 12% on lands listed on the NRHP unless approved by the Wisconsin Historical Society. Surveys for artifacts on or near the mounds should be conducted after prescribed burning.

Prescribed Fire

A burn permit will need to be acquired from the Village prior to beginning a prescribed fire program. This will include preparation of a burn plan and close coordination with the Village Fire Department Fire Chief.

Management Plan

Short-term (3 years) and long-term (>3 years) vegetation management/maintenance programs should be implemented at Village conservancies to ensure long-term success of the site. Short-term management is when major efforts are undertaken to restore and enhance vegetation and biological diversity and ensure that the appropriate soil conditions are present for seeding and planting. The restoration phase includes tasks such as reducing non-native species prior to seeding and planting, initial prescribed burning, native seeding/planting, and tree removal. Routine management activities including herbicide application and mowing will occur during the early years of the restoration phase.

After achieving initial vegetation management goals there will be a shift to a lower-cost, reduced-intervention management program. This phase will begin in the fourth year following initial restoration treatments and will continue in perpetuity. This phase generally requires less intensive management efforts. Tasks during the management phase will include one or more of the following: spot herbicide treatments, remedial plantings, prescribed burning, and/or other management activities. Some mowing still may occur during this phase. Tasks are performed on a regular schedule, guided by periodic ecological assessments.

It is during the long-term management phase where opportunities for long-lasting personal involvement by volunteers and/or employees in land stewardship typically begin. Direct involvement in site stewardship and wildlife observations can provide an important and meaningful way to engage the community in the restoration project.

Community Opportunities

Conservancy neighbors and all McFarland residents play a critical role in the short- and long-term success of conservancy restoration and management. Land-use practices adjacent to, upslope, and upstream of the conservancies have demonstrable effects, both positive and negative, on the ecological health of the conservancies. The following are some opportunities residents can participate in to help ensure their natural areas remain healthy.

Education

The Village should consider hosting workshops and field trips designed to educate residents on topics such as stormwater management and green stormwater infrastructure design, native landscaping, ecology and ecological restoration, and other relevant topics. This will give people the tools to be able to recognize environmental degradation, identify the source of degradation, and develop solutions. Education is the most important step in ensuring successful restoration and maintenance of the conservancies' ecological health.

Native Landscaping

Utilizing native species in landscaping is an easy and enjoyable way for residents to have a direct positive impact on their environment. In addition to the aesthetic qualities provided by many native plant species, their deep root systems penetrate deep into the soil profile which increases water infiltration and reduces surface runoff. Native plants provide important pollinator habitat as well as habitat for numerous other wildlife and insect species. Native landscaping would also help to reduce the unwanted spread of non-native garden ornamentals into neighboring conservancies and help reduce Village vegetation maintenance costs. Several native plant nurseries exist in southern Wisconsin with hundreds of plant species available that come in a variety of growth forms, heights, and flower colors. There are also landscape architects that are well-versed in incorporating native plants into landscape design who are valuable resources to rely upon

if needed.

Sustainable Stormwater Infrastructure

Descriptions and benefits of rain gardens, bioswales, and rain catchment systems were described previously in this CMP. These types of systems can easily be adapted to use in almost any residential setting. They are generally inexpensive and have simple designs but provide significant benefits to downstream water quality. Stormwater design and construction specialists can assist landowners with design and installation of these systems.

Volunteering

The Village hosts numerous volunteer opportunities at the conservancies throughout the course of the year, which include activities such as invasive species removal and native planting. These events are perfect opportunities to learn about ecological and ecosystem management while simultaneously improving the ecological condition of the conservancies. Those interested in volunteer opportunities should follow the Village on social media to stay up to date on these opportunities as they arise.

Invasive Species Control

Invasive species are the most significant ecological stressors at Village conservancies and diligent control efforts are needed to reduce their prevalence. Because of the extent and variety of invasive species, numerous methods will be required to control them, including tree removal, forestry mowing/brushcutting, broadcast and spot-herbicide treatment, mowing, hand-pulling, and prescribed fire. Invasive species management during the short-term management phase was described in detail in the Conceptual Ecological Restoration Plan.

Invasive species management during the long-term management phase should include herbicide spot-treatment events conducted throughout each MU in spring and summer of Year-4 and Year-5. Spot-spraying frequency and extent can likely be reduced in subsequent years assuming invasive species have been adequately controlled. Mowing can also be employed prior to flowering/seed set as an alternative to herbicide treatments or if certain invasive species populations missed treatment. Regular prescribed burns (every 2-3 years) should also be instituted particularly in prairies and open-canopy woodlands, but also less frequently in forested areas.

Several conservancies experience relatively heavy use by students and the general public so it will be a priority to protect park users from herbicide exposure. Effective communication between the herbicide application contractor and conservancy staff will be critical to ensure appropriate trail closure during and after herbicide application events. Herbicides will only be applied by licensed contractors, or at the direction of a certified applicator, following WDNR pesticide use policies and the Pesticide Use Manual Code (4230.1).

Supplemental Planting and Seeding

Supplemental seeding and/or plant installation may be needed in areas with significant native plant mortality and seeding failure as determined qualitatively by a qualified ecologist. Tree and shrub replanting should occur in spring or early summer and supplemental seeding should occur in spring or fall. Species selection should follow the plant palettes and seed mixes presented in the Conceptual Ecological Restoration Plan for the appropriate zones. Following an adaptive management approach, if certain species are observed to be performing particularly well in given areas, then those species should be emphasized in revegetation efforts for those areas.

Prescribed Fire

Fire is a critical tool for reducing shrub invasion into the prairies and savannas and to create suitable conditions for native species establishment and persistence. Prescribed burning should occur in the restored prairies and oak woodlands on a 2 to 3 year interval in either early spring or late-summer/fall. Fire should also periodically be used in closed-canopy forests.

Prescribed burns must only be conducted by qualified contractors or Village staff when environmental conditions (wind speed/direction, relative humidity, and fuel load/moisture) are optimal. Burns should not be conducted during periods of drought or when air quality advisories are in place. Because most of the conservancies are surrounded by residential and commercial developments, smoke management will be critical so that smoke-sensitive areas are not affected. Burn permits and approvals must be acquired from the Village of McFarland Fire Department prior to burning.

Mowing can be conducted in lieu of prescribed fire in areas where implementing burns is infeasible. Restored prairie and oak woodland areas should be mowed every two to three years during the long-term management phase in areas where burning is not permitted.

Monitoring Plan

Qualitative Monitoring

RES recommends a qualified ecologist conducts qualitative site assessments twice per growing season during the short-term management phase to assess vegetation performance and maintenance needs. Qualitative assessments should include inspecting recently restored areas taking note of general species dominance, mortality, disturbances, and maintenance needs. Maintenance needs should be communicated to the Village, and addressed, in a timely manner.

Quantitative Monitoring

Vegetation

To maintain consistency with baseline survey methods and efficiently collect the necessary level of information, monitoring methods should follow those in Study Methods Section of this CMP. Plot sampling following wetland delineation methodology and quadrat sampling along transects are more intensive types of vegetation surveys that the Village can consider utilizing if funding allows. Plots and transects should be randomly located throughout each restored plant community at sampling intensities that accurately represent each community. Species-area curves can be used to determine sampling intensity adequacy.

Wildlife Use

Observations of wildlife utilizing the conservancies and wildlife disturbance (i.e., footprints, tree rubbing, and plant browse) should be documented during monitoring events. Wildlife observations may include, but is not limited to, avian species, amphibian species, reptilian species, insect, and/or mammalian species. The Village should consider conducting formal bird, herptile, mammal, and insect surveys to fully understand functional uplift of wildlife habitat that occurs in response to restoration efforts.

Hydrology

If hydrology restoration is completed at any conservancy, a hydrology monitoring program should be developed. Hydrology monitoring could involve the use of staff gauges and/or water table monitoring wells outfitted with electronic dataloggers to track hydrologic responses to restoration.

Monitoring Schedule

Quantitative vegetation monitoring should occur soon after initial restoration activities are complete within a plant community or MU and then repeated at varying frequencies depending on the habitat being monitored. Table 46 presents an idealized quantitative monitoring schedule; however, the Village may have to adjust this schedule based on resource availability.

Table 46. Quantitative Monitoring Schedule

Plant Community	Year-1	Year-2	Year-3	Year-5	Year-7	Year-10
Herbaceous Communities[1]	X	X	X	X		
Shrub-carr	X	X	X	X	X	
Woodlands and forests without planted trees and shrubs[2]	X	X	X	X		
Woodlands and forests with planted trees and shrubs[3]	X	X	X	X	X	X

[1] Herbaceous communities include emergent marsh, pond shoreline, southern sedge meadow, wet prairie, wet-mesic prairie, mesic prairie, and dry-mesic prairie.
[2] Woodlands and forests without planted trees and shrubs includes conifer plantation, floodplain forest, southern dry-mesic forest, southern mesic forest at Indian Mound and Babcock Conservancies, and oak woodlands at Urso Park and Marsh Woods Conservancy.
[3] Woodlands and forests with planted trees and shrubs includes southern hardwood swamp, oak woodlands at Woodland Commons Conservancy and Siggelkow Road Park, and southern mesic forest at Grand View Conservancy.

Performance Standards

Vegetation

In general, restored areas should exhibit increasing trends in native species abundance, native plant diversity, *w*FQI, and *w*Mean C and decreasing abundance of non-native and invasive species over time. Specific targets for metrics associated with each plant community type are suggested in Table 47 below; however, failure to attain some of these standards is not indicative that restoration was unsuccessful. Some of these performance standards are relatively stringent and restoration potential varies widely between sites due to constraints inherent to each site. Performance standards are particularly useful when they are used to guide ongoing vegetation management.

Table 47. Vegetation Performance Standards

Performance Standard	Benchmark 1	Benchmark 2	Final
Oak Woodland, Southern Dry-mesic Forest, and Southern Mesic Forest			
Maximum Allowance for Unvegetated Areas	<400 ft^2	<100 ft^2	<10 ft^2
Perennial Native Species Richness	≥10	≥15	≥20
Native Relative Areal Cover	≥50%	≥70%	≥80%
Non-native Relative Areal Cover	<50%	≤30%	≤20%
Southern Hardwood Swamp and Floodplain Forest			
Maximum Allowance for Unvegetated Areas	<400 ft^2	<100 ft^2	<10 ft^2
Perennial Native Hydrophyte Species Richness	≥10	≥15	≥20
Native Hydrophyte Relative Areal Cover (all strata cumulatively)	≥75%	≥80%	≥85%
Native Relative Areal Cover	≥80%	≥85%	≥90%
Non-native Relative Areal Cover	≤20%	≤15%	≤10%
Shrub-carr			
Maximum Allowance for Unvegetated Areas	<400 ft^2	<100 ft^2	<10 ft^2
Perennial Native Hydrophyte Species Richness	≥6	≥10	≥15
Native Hydrophyte Relative Areal Cover (all strata cumulatively)	≥70%	≥75%	≥80%
Native Relative Areal Cover	≥75%	≥80%	≥85%
Non-native Relative Areal Cover	≤25%	≤20%	≤15%
Emergent Marsh & Pond Shoreline			

Performance Standard	Benchmark 1	Benchmark 2	Final
Perennial Native Hydrophyte Species Richness	≥6	≥10	≥15
Native Hydrophyte Relative Areal Cover	≥40%	≥65%	≥75%
Native Relative Areal Cover	≥75%	≥80%	≥85%
Non-native Relative Areal Cover	≤25%	≤20%	≤15%
Sedge Meadow & Wet Prairie			
Maximum Allowance for Unvegetated Areas	<400 ft^2	<100 ft^2	<10 ft^2
Perennial Native Hydrophyte Species Richness	≥6	≥10	≥15
Native Hydrophyte Relative Areal Cover	≥40%	≥65%	≥75%
Native Relative Areal Cover	≥50%	≥70%	≥80%
Non-native Relative Areal Cover	<50%	≤30%	≤20%
Wet-mesic, Mesic, and Dry-mesic Prairie			
Maximum Allowance for Unvegetated Areas	<400 ft^2	<100 ft^2	<10 ft^2
Perennial Native Species Richness	≥6	≥10	≥15
Native Relative Areal Cover	≥50%	≥70%	≥80%
Non-native Relative Areal Cover	<50%	≤30%	≤20%

Hydrology

If hydrology restoration is completed at any conservancy, hydrology performance standards should be developed for each wetland type restored. One potential hydrology performance standard for restored wetlands is as follows: the water table will be ≤12 inches below the ground surface for a duration that is within 20% of the variability range of a reference wetland. An alternative standard for restored sedge meadow and wet prairie wetlands is hydrology will consist of a water table 12 inches or less below the soil surface for a minimum of 28 consecutive days, or two periods of 14 or more consecutive days, during the growing season under normal and wetter than normal hydrological conditions. Inundation during the growing season will not occur except: (1) at the start of the growing season (due to snowmelt/precipitation); and (2) following the 10-year, 24-hour—or greater—precipitation events. Depth of inundation during the growing season will be 6 inches or less with duration of less than 14 consecutive days.

Reporting

Monitoring reports should be prepared summarizing monitoring results from the preceding growing season. Reports would be used to determine if the conservancies are meeting performance standards and could include the following information:

- Site location information, permit numbers (if relevant), methodology, and monitoring dates.
- Goals, objectives, and performance standards of the conservancy.
- Identification of any failures or external disturbances to the site.
- Description of management activities conducted during the last year and corrective actions needed for the upcoming year.
- A summary of all data collected during the past year.
- A summary of all plant species within each plant community.
- Data sheets.

- Hydrology and precipitation data for each year if relevant.
- Wildlife observations.
- A site map with locations of all data collection locations.
- An assessment of the presence and level of occurrence of non-native, invasive species.
- An assessment of the degree to which performance standards are being met.
- Representative site photographs.
- A narrative summary of the monitoring results and conclusions.

Opinion of Probable Costs

Tables 48-65 present RES' opinion of probably costs (OPC) for proposed restoration work as well as estimated labor hours. Table 66 and Table 67 present the OPC and estimated labor hours respectively for the priority management units' five-year plan. Cost estimates will need to be refined during the implementation phases of the projects.

Table 48. Babcock Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	**BMU-1 (0.57 acres)**													
	Spot-herbicide treatments - herb stratum		$500	$500			$550	$550			$600	$600		
	Native seed installation				$1,500									
	Long-term management													$2,000
Southern Hardwood Swamp	**BMU-2 (1.95 acres)**													
	Woody invasive hand removal, stump treatments	$9,750												
	Tree girdling/removal	$2,000												
	Spot-herbicide treatments - herb stratum		$975	$975			$1,100	$1,100			$1,200	$1,200		
	Native tree and shrub installation						$19,500							
	Native seed installation								$5,000					
	Long-term management													$4,000
Emergent Marsh	**BMU-2 (4.40 acres)**													
	Spot-spray reed canary grass and purple loosestrife		$2,225	$2,225			$2,500	$2,500			$2,750	$2,750		
	Long-term management													$9,000
	Total	**$11,750**	**$3,700**	**$3,700**	**$1,500**		**$23,650**	**$4,150**	**$5,000**		**$4,550**	**$4,550**		**$15,000**
	Grand Total	**$77,550**												

Table 49. Babcock Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	**BMU-1 (0.57 acres)**													
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Native seed installation				4									
	Long-term management													12
Southern Hardwood Swamp	**BMU-2 (1.95 acres)**													
	Woody invasive hand removal, stump treatments	300												
	Tree girdling/removal	24												
	Spot-herbicide treatments - herb stratum		8	8			8	8			8	8		
	Native tree and shrub installation						64							
	Native seed installation								8					
	Long-term management													24
Emergent Marsh	**BMU-2 (4.40 acres)**													
	Spot-spray reed canary grass and purple loosestrife		20	20			20	20			20	20		
	Long-term management													60
	Total	**324**	**32**	**32**	**4**		**96**	**32**	**8**		**32**	**32**		**96**
	Grand Total	**688**												

Table 50. Grand View Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	**GMU-3A (4.31 acres)**													
	Woody invasive forestry mowing, stump treatments	$10,775												
	Tree girdling/removal	$43,100												
	Spot-herbicide treatments - herb stratum		$2,200	$2,200			$2,400	$2,400			$2,650	$2,650		
	Prescribed burning				$5,000									
	Native seed installation				$1,750									
	Native tree and shrub installation						$107,750							
	Maintenance mowing						$900	$900			$1,000	$1,000		
	Long-term management													$8,750
	GMU-3B (2.89 acres)													
	Woody invasive hand removal, stump treatments	$14,500												
	Tree girdling/removal	$28,900												
	Spot-herbicide treatments - herb stratum		$1,500	$1,500			$1,650	$1,650			$1,800	$1,800		
	Prescribed burning				$3,500									
	Native seed installation				$7,250									
	Native tree and shrub installation						$72,250							
	Maintenance mowing						$600	$600			$650	$650		
	Long-term management													$6,000
Southern Hardwood Swamp	**GMU-1A-HS, GMU-1B (4.76 acres)**													
	Woody invasive hand removal, stump treatments	$23,800												
	Tree girdling/removal	$5,000												
	Spot-herbicide treatments - herb stratum		$2,400	$2,400			$2,650	$2,650			$3,000	$3,000		
	Native tree and shrub installation						$47,600							
	Native seed installation								$11,900					
	Long-term management													$10,000
Emergent Marsh	**GMU-1A-EM, GMU-1B (7.55 acres)**													
	Broadcast-spray herb stratum		$2,000											
	Spot-herbicide treatments - herb stratum			$4,000			$4,400	$4,400			$4,850	$4,850		
	Prescribed burning				$5,000									
	Native seed installation				$18,875									
	Native plant installation						$30,200							
	Long-term management													$16,000
Pond Shoreline	**GMU-1B (0.68 acres)**													
	Native plant installation						$10,200							
	Spot-herbicide treatments - herb stratum						$700	$700			$770	$770		
	Long-term management													$2,500
Wet Prairie	**GMU-1A-WM (3.86 acres)**													
	Woody invasive hand removal, stump treatments	$19,300												
	Broadcast-spray reed canary grass		$1,000	$1,000										
	Prescribed burning				$3,500									
	Native seed installation				$4,725									
	Maintenance mowing						$800	$800			$900	$900		
	Spot-herbicide treatments - herb stratum						$1,950	$1,950			$2,200	$2,200		
	Long-term management													$7,500

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Wet-mesic Prairie	**GMU-1A-WM (1.89 acres)**													
	Spot-herbicide treatments - herb stratum		$950	$950			$1,050	$1,050			$1,200	$1,200		
	Prescribed burning				$3,500									
	Native seed installation				$4,725									
	Maintenance mowing						$500	$500			$550	$550		
	Long-term management													$4,000
Mesic Prairie	**GMU-2A (2.45 acres)**													
	Woody invasive hand removal, stump treatments	$12,250												
	Spot-herbicide treatments - herb stratum		$1,250	$1,250			$1,375	$1,375			$1,500	$1,500		
	Prescribed burning				$3,500									
	Native seed installation				$6,125									
	Maintenance mowing						$500	$500			$550	$550		
	Long-term management													$5,000
	GMU-2B (3.21 acres)													
	Woody invasive forestry mowing, stump treatments	$16,000												
	Spot-herbicide treatments - herb stratum		$1,600	$1,600			$1,750	$1,750			$1,950	$1,950		
	Prescribed burning				$3,500									
	Native seed installation				$8,025									
	Maintenance mowing						$650	$650			$725	$725		
	Long-term management													$6,500
	Total	**$173,625**	**$12,900**	**$14,900**	**$83,900**		**$289,875**	**$21,875**	**$11,900**		**$24,295**	**$24,295**		**$66,250**
	Grand Total	**$723,815**												

Table 51. Grand View Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	**GMU-3A (4.31 acres)**													
	Woody invasive forestry mowing, stump treatments	650												
	Tree girdling/removal	1,300												
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Prescribed burning				64									
	Native seed installation				18									
	Native tree and shrub installation						360							
	Maintenance mowing						7	7			7	7		
	Long-term management													60
	GMU-3B (2.89 acres)													
	Woody invasive hand removal, stump treatments	435												
	Tree girdling/removal	870												
	Spot-herbicide treatments - herb stratum		12	12			12	12			12	12		
	Prescribed burning				32									
	Native seed installation				18									
	Native tree and shrub installation						240							
	Maintenance mowing						5	5			5	5		
	Long-term management													36
Southern Hardwood Swamp	**GMU-1A-HS, GMU-1B (4.76 acres)**													
	Woody invasive hand removal, stump treatments	715												
	Tree girdling/removal	58												
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Native tree and shrub installation						160							
	Native seed installation								20					
	Long-term management													60
Emergent Marsh	**GMU-1A-EM, GMU-1B (7.55 acres)**													
	Broadcast-spray herb stratum		12											
	Spot-herbicide treatments - herb stratum			30			30	30			30	30		
	Prescribed burning				64									
	Native seed installation				30									
	Native plant installation						150							
	Long-term management													90
Pond Shoreline	**GMU-1B (0.68 acres)**													
	Native plant installation						50							
	Spot-herbicide treatments - herb stratum						4	4			4	4		
	Long-term management													12
Wet Prairie	**GMU-1A-WM (3.86 acres)**													
	Woody invasive hand removal, stump treatments	580												
	Broadcast-spray reed canary grass		6	6										
	Prescribed burning				32									
	Native seed installation				16									
	Maintenance mowing						8	8			8	8		
	Spot-herbicide treatments - herb stratum						16	16			16	16		
	Long-term management													48

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Wet-mesic Prairie	**GMU-1A-WM (1.89 acres)**													
	Spot-herbicide treatments - herb stratum		8	8			8	8			8	8		
	Prescribed burning				32									
	Native seed installation				8									
	Maintenance mowing						4	4			4	4		
	Long-term management													24
Mesic Prairie	**GMU-2A (2.45 acres)**													
	Woody invasive hand removal, stump treatments	370												
	Spot-herbicide treatments - herb stratum		10	10			10	10			10	10		
	Prescribed burning				32									
	Native seed installation				10									
	Maintenance mowing						4	4			4	4		
	Long-term management													30
	GMU-2B (3.21 acres)													
	Woody invasive forestry mowing, stump treatments	20												
	Spot-herbicide treatments - herb stratum		12	12			12	12			12	12		
	Prescribed burning				32									
	Native seed installation				12									
	Maintenance mowing						7	7			7	7		
	Long-term management													36
	Total	**4,998**	**100**	**118**	**400**		**1,127**	**167**	**20**		**167**	**167**		**396**
	Grand Total	**7,660**												

Table 52. Indian Mound/Thrun Marsh Conservancies Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Dry-mesic Forest	**ITMU-1 (11.87 acres)**													
	Woody invasive hand removal, stump treatments	$59,500												
	Tree girdling/removal	$12,000												
	Spot-herbicide treatments - herb stratum		$6,000	$6,000			$6,600	$6,600			$7,250	$7,250		
	Prescribed burning				$6,500									
	Native seed installation				$30,000									
	Long-term management													$24,000
Southern Mesic Forest	**ITMU-1 (1.71 acres)**													
	Woody invasive hand removal, stump treatments	$9,000												
	Tree girdling/removal	$2,000												
	Spot-herbicide treatments - herb stratum		$900	$900			$1,000	$1,000			$1,100	$1,100		
	Prescribed burning				$3,500									
	Native seed installation				$4,250									
	Long-term management													$4,000
Southern Hardwood Swamp	**ITMU-2 (4.34 acres)**													
	Woody invasive hand removal, stump treatments	$21,700												
	Tree girdling/removal	$4,500												
	Spot-herbicide treatments - herb stratum		$2,200	$2,200			$2,500	$2,500			$2,750	$2,750		
	Native tree and shrub installation						$43,500							
	Native seed installation								$10,750					
	Long-term management													$9,000
Emergent Marsh	**ITMU-2 (4.13 acres)**													
	Broadcast-spray herb stratum		$1,200											
	Spot-herbicide treatments - herb stratum			$2,000			$2,200	$2,200			$2,500	$2,500		
	Prescribed burning				$5,000									
	Native seed installation				$10,250									
	Native plant installation						$16,500							
	Long-term management													$8,250
	Total	**$108,700**	**$10,300**	**$11,100**	**$59,500**		**$72,300**	**$12,300**	**$10,750**		**$13,600**	**$13,600**		**$45,250**
	Grand Total	**$357,400**												

Table 53. Indian Mound/Thrun Marsh Conservancies Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Dry-mesic Forest	**ITMU-1 (11.87 acres)**													
	Woody invasive hand removal, stump treatments	1,780												
	Tree girdling/removal	140												
	Spot-herbicide treatments - herb stratum		48	48			48	48			48	48		
	Prescribed burning				72									
	Native seed installation				48									
	Long-term management													144
Southern Mesic Forest	**ITMU-1 (1.71 acres)**													
	Woody invasive hand removal, stump treatments	260												
	Tree girdling/removal	20												
	Spot-herbicide treatments - herb stratum		7	7			7	7			7	7		
	Prescribed burning				32									
	Native seed installation				7									
	Long-term management													21
Southern Hardwood Swamp	**ITMU-2 (4.34 acres)**													
	Woody invasive hand removal, stump treatments	650												
	Tree girdling/removal	52												
	Spot-herbicide treatments - herb stratum		18	18			18	18			18	18		
	Native tree and shrub installation						140							
	Native seed installation								20					
	Long-term management													54
Emergent Marsh	**ITMU-2 (4.13 acres)**													
	Broadcast-spray herb stratum		7											
	Spot-herbicide treatments - herb stratum			16			16	16			16	16		
	Prescribed burning				64									
	Native seed installation				16									
	Native plant installation						80							
	Long-term management													48
	Total	**2,902**	**80**	**89**	**239**		**309**	**89**	**20**		**89**	**89**		**267**
	Grand Total	**4,173**												

Table 54. Marsh Woods Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**MMU-1 (4.47 acres)**													
	Woody invasive hand removal, stump treatments	$22,500												
	Tree girdling/removal	$5,000												
	Spot-herbicide treatments - herb stratum		$2,250	$2,250			$2,500	$2,500			$2,750	$2,750		
	Prescribed burning				$5,000									
	Native seed installation				$11,250									
	Long-term management													$9,000
Southern Hardwood Swamp	**MMU-3 (0.95 acres)**													
	Woody invasive hand removal, stump treatments	$5,000												
	Tree girdling/removal	$1,000												
	Spot-herbicide treatments - herb stratum		$500	$500			$550	$550			$600	$600		
	Native tree and shrub installation						$10,000							
	Native seed installation								$2,500					
	Long-term management													$2,000
Shrub-carr	**MMU-3 (1.14 acres)**													
	Woody invasive hand removal, stump treatments	$5,700												
	Spot-herbicide treatments - herb stratum		$600	$600			$675	$675			$750	$750		
	Prescribed burning				$3,500									
	Native seed installation				$2,850									
	Long-term management													$2,500
Emergent Marsh	**MMU-3 (6.52 acres)**													
	Spot-spray common reed, reed canary grass, and purple loosestrife		$3,300	$3,300			$3,600	$3,600			$4,000	$4,000		
	Long-term management													$14,500
Southern Sedge Meadow	**MMU-3 (Existing Wet Meadow Area) (1.73 acres)**													
	Woody invasive hand removal, stump treatments	$8,700												
	Broadcast-spray reed canary grass		$500	$500										
	Prescribed burning				$3,500									
	Native seed installation				$4,325									
	Native plant installation						$1,000							
	Maintenance mowing						$500	$500			$550	$550		
	Spot-herbicide treatments - herb stratum						$900	$900			$1,000	$1,000		
	Long-term management													$3,500
	MMU-3 (Existing High-Quality Sedge Meadow) (7.25 acres)													
	Woody invasive hand removal, stump treatments	$36,500												
	Spot-herbicide treatments - herb stratum		$3,650	$3,650			$4,000	$4,000			$4,400	$4,400		
	Long-term management													$14,500
Mesic Prairie	**MMU-2 (Existing Surrogate Grassland Area) (5.10 acres)**													
	Woody invasive hand removal, stump treatments	$25,500												
	Broadcast-spray non-native, cool season grasses		$1,300											
	Spot-herbicide treatments - herb stratum		$2,600	$2,600			$2,900	$2,900			$3,200	$3,200		
	Prescribed burning				$5,000									
	Native seed installation				$12,750									
	Maintenance mowing						$1,050	$1,050			$1,200	$1,200		

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Long-term management													$10,500
	MMU-2 (Existing Mesic Prairie) (1.10 acres)													
	Woody invasive hand removal, stump treatments	$5,500												
	Spot-herbicide treatments - herb stratum		$550	$550			$600	$600			$675	$675		
	Prescribed burning				$3,500									
	Native seed installation				$2,750									
	Maintenance mowing						$500	$500			$550	$550		
	Long-term management													$2,500
	Total	**$115,400**	**$15,250**	**$13,950**	**$54,425**		**$28,775**	**$17,775**	**$2,500**		**$19,675**	**$19,675**		**$58,000**
	Grand Total	**$345,425**												

Table 55. Marsh Woods Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**MMU-1 (4.47 acres)**													
	Woody invasive hand removal, stump treatments	670												
	Tree girdling/removal	54												
	Spot-herbicide treatments - herb stratum		18	18			18	18			18	18		
	Prescribed burning				64									
	Native seed installation				18									
	Long-term management													54
Southern Hardwood Swamp	**MMU-3 (0.95 acres)**													
	Woody invasive hand removal, stump treatments	150												
	Tree girdling/removal	12												
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Native tree and shrub installation						34							
	Native seed installation								4					
	Long-term management													16
Shrub-carr	**MMU-3 (1.14 acres)**													
	Woody invasive hand removal, stump treatments	170												
	Spot-herbicide treatments - herb stratum		5	5			5	5			5	5		
	Prescribed burning				32									
	Native seed installation				5									
	Long-term management													15
Emergent Marsh	**MMU-3 (6.52 acres)**													
	Spot-spray common reed, reed canary grass, and purple loosestrife		40	40			40	40			40	40		
	Long-term management													120
Southern Sedge Meadow	**MMU-3 (Existing Wet Meadow Area) (1.73 acres)**													
	Woody invasive hand removal, stump treatments	260												
	Broadcast-spray reed canary grass		5	5										
	Prescribed burning				32									
	Native seed installation				5									
	Native plant installation						5							

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Maintenance mowing						4	4			4	4		
	Spot-herbicide treatments - herb stratum						7	7				7		
	Long-term management													21
	MMU-3 (Existing High-Quality Sedge Meadow) (7.25 acres)													
	Woody invasive hand removal, stump treatments	1,088												
	Spot-herbicide treatments - herb stratum		30	30			30	30			30			
	Long-term management													90
Mesic Prairie	**MMU-2 (Existing Surrogate Grassland Area) (5.10 acres)**													
	Woody invasive hand removal, stump treatments	765												
	Broadcast-spray non-native, cool season grasses		8											
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Prescribed burning				64									
	Native seed installation				20									
	Maintenance mowing						8	8			8	8		
	Long-term management													60
	MMU-2 (Existing Mesic Prairie) (1.10 acres)													
	Woody invasive hand removal, stump treatments	165												
	Spot-herbicide treatments - herb stratum		5	5			5	5			5	5		
	Prescribed burning				32									
	Native seed installation				5									
	Maintenance mowing						4	4			4	4		
	Long-term management													15
	Total	**3,334**	**135**	**127**	**277**		**184**	**145**	**4**		**145**	**145**		**391**
	Grand Total	**4,887**												

Table 56. Siggelkow Road Park Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**SMU-1 (3.82 acres)**													
	Woody invasive hand removal, stump treatments	$19,100												
	Tree girdling/removal	$38,200												
	Spot-herbicide treatments - herb stratum		$2,000	$2,000			$2,200	$2,200			$2,500	$2,500		
	Prescribed burning				$3,500									
	Native seed installation				$9,550									
	Native tree and shrub installation						$38,200							
	Long-term management													$8,500
	Total	**$57,300**	**$2,000**	**$2,000**	**$13,050**		**$40,400**	**$2,200**			**$2,500**	**$2,500**		**$8,500**
	Grand Total	**$130,450**												

Table 57. Siggelkow Road Park Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**SMU-1 (3.82 acres)**													
	Woody invasive hand removal, stump treatments	575												
	Tree girdling/removal	1,150												
	Spot-herbicide treatments - herb stratum		16	16			16	16			16	16		
	Prescribed burning				32									
	Native seed installation				16									
	Native tree and shrub installation						128							
	Long-term management													48
	Total	**1,725**	**16**	**16**	**48**		**114**	**16**			**16**	**16**		**48**
	Grand Total	**2,045**												

Table 58. Taylor Road Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Dry-mesic Prairie	**TMU-2 (1.20 acres)**													
	Woody invasive hand removal, stump treatments	$6,000												
	Tree removal	$19,500												
	Spot- or broadcast-spray non-native, cool season grasses		$500											
	Spot-herbicide treatments - herb stratum		$600	$600			$650	$650			$725	$725		
	Prescribed burning				$3,500									
	Native seed installation				$3,000									
	Maintenance mowing						$500	$500			$550	$550		
	Long-term management													$2,400
Conifer Plantation	**TMU-1 (1.94 acres)**													
	Woody invasive hand removal, stump treatments	$9,700												
	Tree girdling/removal	$2,000												
	Spot-herbicide treatments - herb stratum		$1,000	$1,000			$1,100	$1,100			$1,200	$1,200		
	Long-term management													$4,000
	Total	**$37,200**	**$2,100**	**$1,600**	**$6,500**		**$2,250**	**$2,250**			**$2,475**	**$2,475**		**$6,400**
	Grand Total	**$63,250**												

Table 59. Taylor Road Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Dry-mesic Prairie	**TMU-2 (1.20 acres)**													
	Woody invasive hand removal, stump treatments	180												
	Tree removal	360												
	Spot- or broadcast-spray non-native, cool season grasses		4											
	Spot-herbicide treatments - herb stratum		5	5			5	5			5	5		
	Prescribed burning				32									
	Native seed installation				5									
	Maintenance mowing						4	4			4	4		
	Long-term management													15
Conifer Plantation	**TMU-1 (1.94 acres)**													
	Woody invasive hand removal, stump treatments	290												
	Tree girdling/removal	24												
	Spot-herbicide treatments - herb stratum		8	8			8	8			8	8		
	Long-term management													24
	Total	**854**	**17**	**13**	**37**		**17**	**17**			**17**	**17**		**39**
	Grand Total	**1,028**												

Table 60. Urso Park Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**UMU-2 (7.91 acres)**													
	Woody invasive hand removal, stump treatments	$40,000												
	Tree girdling/removal	$8,000												
	Spot-herbicide treatments - herb stratum		$4,000	$4,000			$4,400	$4,400			$4,850	$4,850		
	Prescribed burning				$6,500									
	Native seed installation				$20,000									
	Long-term management													$16,000
Southern Hardwood Swamp	**UMU-1-HS (7.33 acres)**													
	Woody invasive hand removal, stump treatments	$36,500												
	Tree girdling/removal	$7,500												
	Spot-herbicide treatments - herb stratum		$3,700	$3,700			$4,000	$4,000			$4,400	$4,400		
	Native tree and shrub installation						$73,500							
	Native seed installation								$18,250					
	Long-term management													$14,500
Shrub-carr	**UMU-1-SCE, UMU-1-SCN (3.82 acres)**													
	Woody invasive hand removal, stump treatments	$19,100												
	Spot-herbicide treatments - herb stratum		$2,000	$2,000			$2,200	$2,200			$2,500	$2,500		
	Prescribed burning				$3,500									
	Native seed installation				$9,7500									
	Long-term management													$8,500
	UMU-3 (East Conifer Plantation & Orchard) (1.79 acres)													
	Woody invasive hand removal, stump treatments	$9,000												
	Tree removal	$17,900												

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Spot-herbicide treatments - herb stratum		$1,000	$1,000			$1,100	$1,100			$1,200	$1,200		
	Prescribed burning				$3,500									
	Native seed installation				$4,500									
	Native shrub installation						$26,850							
	Long-term management													$5,000
Emergent Marsh	**UMU-1-EM (5.36 acres)**													
	Spot-treat non-native cattail		$10,750											
	Spot-herbicide treatments - herb stratum			$2,700			$3,000	$3,000			$3,300	$3,300		
	Prescribed burning				$6,500									
	Native seed installation				$13,400									
	Native plant installation						$21,500							
	Long-term management													$11,000
Pond Shoreline	**UMU-1-SCE (0.09 acres)**													
	Native plant installation						$15,000							
	Spot-herbicide treatments - herb stratum						$500	$500			$550	$550		
	Long-term management													$2,000
Southern Sedge Meadow	**UMU-1-WMN, UMU-1-WMS (3.40 acres)**													
	Woody invasive hand removal, stump treatments	$17,000												
	Broadcast-spray reed canary grass		$850	$850										
	Prescribed burning				$3,500									
	Native seed installation				$8,500									
	Native plant installation						$1,700							
	Maintenance mowing						$680	$500			$550	$550		
	Spot-herbicide treatments - herb stratum						$1,700	$1,700			$1,870	$1,870		
	Long-term management													$6,170
Conifer Plantation	**UMU-3 (West Conifer Plantation) (0.31 acres)**													
	Woody invasive hand removal, stump treatments	$2,000												
	Spot-herbicide treatments - herb stratum		$500	$500			$550	$550			$600	$600		
	Long-term management													$2,000
	Total	**$157,000**	**$22,800**	**$14,750**	**$79,650**		**$156,680**	**$18,130**	**$18,250**		**$19,950**	**$19,950**		**$65,170**
	Grand Total	**$572,330**												

Table 61. Urso Park Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**UMU-2 (7.91 acres)**													
	Woody invasive hand removal, stump treatments	1,190												
	Tree girdling/removal	95												
	Spot-herbicide treatments - herb stratum		32	32			32	32			32	32		
	Prescribed burning				72									
	Native seed installation				32									
	Long-term management													64
Southern Hardwood Swamp	**UMU-1-HS (7.33 acres)**													
	Woody invasive hand removal, stump treatments	1,100												
	Tree girdling/removal	88												
	Spot-herbicide treatments - herb stratum		30	30			30	30			30	30		
	Native tree and shrub installation						245							
	Native seed installation								30					
	Long-term management													90
Shrub-carr	**UMU-1-SCE, UMU-1-SCN (3.82 acres)**													
	Woody invasive hand removal, stump treatments	575												
	Spot-herbicide treatments - herb stratum		16	16			16	16			16	16		
	Prescribed burning				32									
	Native seed installation				16									
	Long-term management													48
	UMU-3 (East Conifer Plantation & Orchard) (1.79 acres)													
	Woody invasive hand removal, stump treatments	270												
	Tree removal	540												
	Spot-herbicide treatments - herb stratum		7	7			7	7			7	7		
	Prescribed burning				32									
	Native seed installation				7									
	Native shrub installation						90							
	Long-term management													21
Emergent Marsh	**UMU-1-EM (5.36 acres)**													
	Spot-treat non-native cattail		86											
	Spot-herbicide treatments - herb stratum			22			22	22			22	22		
	Prescribed burning				73									
	Native seed installation				22									
	Native plant installation						108							
	Long-term management													66
Pond Shoreline	**UMU-1-SCE (0.09 acres)**													
	Native plant installation						75							
	Spot-herbicide treatments - herb stratum						4	4			4	4		
	Long-term management													12
Southern Sedge Meadow	**UMU-1-WMN, UMU-1-WMS (3.40 acres)**													
	Woody invasive hand removal, stump treatments	510												
	Broadcast-spray reed canary grass		9	9										
	Prescribed burning				32									
	Native seed installation				14									

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Native plant installation						9							
	Maintenance mowing						5	5			5	5		
	Spot-herbicide treatments - herb stratum						14	14			14	14		
	Long-term management													42
Conifer Plantation	**UMU-3 (West Conifer Plantation) (0.31 acres)**													
	Woody invasive hand removal, stump treatments	48												
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Long-term management													12
	Total	**4,416**	**184**	**120**	**332**		**661**	**134**	**30**		**134**	**134**		**355**
	Grand Total	**6,500**												

Table 62. Woodland Commons Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**WMU-1 (5.16 acres)**													
	Woody invasive forestry mowing, stump treatments	$25,500												
	Tree girdling/removal	$51,600												
	Spot-herbicide treatments - herb stratum		$2,500	$2,500			$2,750	$2,750			$3,000	$3,000		
	Prescribed burning				$5,000									
	Native seed installation				$12,500									
	Native tree and shrub installation						$51,600							
	Maintenance mowing						$1,050	$1,050			$1,200	$1,200		
	Long-term management													$10,000
	Total	**$77,100**	**$2,500**	**$2,500**	**$17,500**		**$55,400**	**$3,800**			**$4,200**	**$4,200**		**$10,000**
	Grand Total	**$177,200**												

Table 63. Woodland Commons Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	**WMU-1 (5.16 acres)**													
	Woody invasive forestry mowing, stump treatments	775												
	Tree girdling/removal	1,550												
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Prescribed burning				64									
	Native seed installation				20									
	Native tree and shrub installation						175							
	Maintenance mowing						10	10			10	10		
	Long-term management													80
	Total	**2,325**	**20**	**20**	**84**		**205**	**30**			**30**	**30**		**80**
	Grand Total	**2,824**												

Table 64. Yahara River Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Floodplain Forest	**YMU-1 (0.69 acres)**													
	Woody invasive forestry mowing, stump treatments	$3,500												
	Spot-herbicide treatments - herb stratum		$500	$500			$550	$550			$600	$600		
	Prescribed burning				$3,500									
	Native seed installation				$1,750									
	Long-term management													$2,000
Emergent Marsh	**YMU-1 (0.36 acres)**													
	Spot-herbicide treatments - herb stratum		$500	$500			$550	$550			$600	$600		
	Long-term management													$2,000
	Total	**$3,500**	**$1,000**	**$1,000**	**$5,250**		**$1,100**	**$1,100**			**$1,200**	**$1,200**		**$4,000**
	Grand Total	**$19,350**												

Table 65. Yahara River Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Floodplain Forest	**YMU-1 (0.69 acres)**													
	Woody invasive forestry mowing, stump treatments	6												
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Prescribed burning				32									
	Native seed installation				4									
	Long-term management													12
Emergent Marsh	**YMU-1 (0.36 acres)**													
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Long-term management													12
	Total	**6**	**8**	**8**	**36**		**8**	**8**			**8**	**8**		**24**
	Grand Total	**114**												

Table 66. Five-Year Priority Area Opinion of Probable Costs

Budget Year	Management Unit	Activity	Opinion of Probable Costs
2024	GMU-3A	Woody invasive forestry mowing, stump treatments	$10,775
2024	GMU-3A	Tree girdling/removal	$43,100
2025	GMU-3B	Woody invasive hand removal, stump treatments	$14,500
2025	GMU-3B	Tree girdling/removal	$28,900
2026	ITMU-2	Woody invasive hand removal, stump treatments	$21,700
2026	ITMU-2	Tree girdling/removal	$4,500
2027/2028	WMU-1	Woody invasive forestry mowing, stump treatments	$25,500
2027/2028	WMU-1	Tree girdling/removal	$51,600

Table 67. Five-Year Priority Area Estimated Labor Hours

Budget Year	Management Unit	Activity	Estimated Labor Hours
2024	GMU-3A	Woody invasive forestry mowing, stump treatments	650
2024	GMU-3A	Tree girdling/removal	1,300
2025	GMU-3B	Woody invasive hand removal, stump treatments	435
2025	GMU-3B	Tree girdling/removal	870
2026	ITMU-2	Woody invasive hand removal, stump treatments	650
2026	ITMU-2	Tree girdling/removal	52
2027/2028	WMU-1	Woody invasive forestry mowing, stump treatments	775
2027/2028	WMU-1	Tree girdling/removal	1,550

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Appendix A. Figures

Appendix B. Photo-documentation

Photo 1. Photo-point 1 at Babcock Conservancy (BMU-1) looking north at southern mesic forest (July 19, 2022).

Photo 2. Photo-point 2 at Babcock Conservancy (BMU-2) looking east at southern hardwood swamp (July 19, 2022).

Photo 3. Photo-point 3 at Babcock Conservancy (BMU-2) looking north at emergent marsh (July 19, 2022).

Photo 4. Photo-point 4 at Babcock Conservancy (BMU-1) looking southeast at emergent marsh (July 19, 2022).

Photo 5. Photo-point 1 at Grand View Conservancy (GMU-1A) looking north at emergent marsh (July 12, 2022).

Photo 6. Photo-point 2 at Grand View Conservancy (GMU-1A) looking north at wet-mesic prairie (July 12, 2022).

Photo 7. Photo-point 3 at Grand View Conservancy (GMU-2A) looking northwest at mesic prairie (July 12, 2022).

Photo 8. Photo-point 4 at Grand View Conservancy (GMU-2B) looking north at shrub-invaded mesic prairie (July 12, 2022).

Photo 9. Photo-point 5 at Grand View Conservancy (GMU-1A) looking north at southern hardwood swamp (July 12, 2022).

Photo 10. Photo-point 6 at Grand View Conservancy (GMU-3A) looking east at southern mesic forest (July 12, 2022).

Photo 11. Photo-point 7 at Grand View Conservancy (GMU-1A) looking south at wet meadow (foreground) and southern hardwood swamp (background) (July 12, 2022).

Photo 12. Photo-point 8 at Grand View Conservancy (GMU-1B) looking north at emergent marsh (July 12, 2022).

Photo 13. Photo-point 9 at Grand View Conservancy (GMU-3B) looking east at southern mesic forest (July 12, 2022).

Photo 14. Photo-point 10 at Grand View Conservancy (GMU-1B) looking southeast at emergent marsh (July 12, 2022).

Photo 15. Photo-point 11 at Grand View Conservancy (GMU-1A) looking south at emergent marsh (July 12, 2022).

Photo 16. Encroachment at Grand View Conservancy. This photo shows shallow drainage swales excavated on Village property (July 12, 2022).

Photo 17. Encroachment at Grand View Conservancy. This photo shows debris and firewood piles from adjacent landowners on Village property (July 12, 2022).

Photo 18. Invasive species, *Physalis alkekenji*, at Grand View Conservancy escaped from nearby gardens (July 12, 2022).

Photo 19. Photo-point 1 at Thrun Marsh (ITMU-2) looking south at emergent marsh and southern hardwood swamp (July 20, 2022).

Photo 20. Photo-point 2 at Thrun Marsh (ITMU-2) looking west at southern hardwood swamp (July 20, 2022).

Photo 21. Photo-point 3 at Indian Mound Conservancy (ITMU-1) looking south at southern mesic forest (July 20, 2022).

Photo 22. Photo-point 3 at Indian Mound Conservancy (ITMU-1) looking west at southern mesic forest (July 20, 2022).

Photo 23. Photo-point 4 at Indian Mound Conservancy (ITMU-1) looking east at southern dry-mesic forest (July 20, 2022).

Photo 24. Photo-point 5 at Indian Mound Conservancy (ITMU-1) looking north at a Native American mound (July 20, 2022).

Photo 25. Photo-point 6 at Indian Mound Conservancy (ITMU-1) looking south at southern dry-mesic forest (July 20, 2022).

Photo 26. Photo-point 7 at Indian Mound Conservancy (ITMU-1) looking west at southern dry-mesic forest (July 20, 2022).

Photo 27. Photo-point 8 at Indian Mound Conservancy (ITMU-1) looking southwest at southern dry-mesic forest (July 20, 2022).

Photo 28. Stormwater discharge at pipe at upstream end of severe gully erosion in Thrun Marsh Conservancy (large precipitation event on June 8, 2022).

Photo 29. Severe gully erosion downstream of stormwater discharge pipe in Thrun Marsh Conservancy (large precipitation event on June 8, 2022).

Photo 30. Severe gully erosion downstream of stormwater discharge pipe in Thrun Marsh Conservancy (large precipitation event on June 8, 2022).

Photo 31. Culvert under the trail at terminus of severe gully erosional feature. View from the alluvial fan at the edge of Thrun Marsh (large precipitation event on June 8, 2022).

Photo 32. Concentrated stormwater runoff from Indian Mound Middle School upslope of Indian Mound Conservancy hiking trail (large precipitation event on June 8, 2022).

Photo 33. Rill erosion on hiking trail at Indian Mound Conservancy caused by concentrated runoff from the Indian Mound Middle School (large precipitation event on June 8, 2022).

Photo 34. Photo-point 1 at Marsh Woods Conservancy (MMU-2) looking southwest at mesic prairie (July 20, 2022).

Photo 35. Photo-point 1 Marsh Woods Conservancy (MMU-2) looking west at surrogate grassland (July 20, 2022).

Photo 36. Photo-point 2 at Marsh Woods Conservancy (MMU-1) looking west at oak woodland (July 20, 2022).

Photo 37. Photo-point 3 Marsh Woods Conservancy (MMU-3) looking west at southern sedge meadow (July 20, 2022).

Photo 38. Photo-point 4 at Marsh Woods Conservancy (MMU-3) looking west at surrogate grassland and wet meadow (July 20, 2022).

Photo 39. Photo-point 5 at Marsh Woods Conservancy (MMU-3) looking east at southern sedge meadow (foreground) and shrub-carr (background) (July 20, 2022).

Photo 40. Photo-point 5 at Marsh Woods Conservancy (MMU-3) looking west at southern sedge meadow (July 20, 2022).

Photo 41. Photo-point 6 at Marsh Woods Conservancy (MMU-3) looking east at emergent marsh (July 20, 2022).

Photo 42. Photo-point 7 at Marsh Woods Conservancy (MMU-3) looking west at southern hardwood swamp (July 20, 2022).

Photo 43. Photo-point 8 at Marsh Woods Conservancy (SMU-1) looking southeast at emergent marsh (July 20, 2022).

Photo 44. Photo-point 1 at Siggelkow Rd Park (SMU-1) looking northwest at southern dry-mesic forest (July 19, 2022).

Photo 45. Photo-point 2 at Siggelkow Rd Park (SMU-1) looking southwest at a Native American mound (July 19, 2022).

Photo 46. Photo-point 3 at Siggelkow Rd Park (SMU-1) looking southeast at southern dry-mesic forest (July 19, 2022).

Photo 47. Photo-point 1 at Taylor Rd Conservancy (TMU-2B) looking west at invaded surrogate grassland (July 19, 2022).

Photo 48. Photo-point 2 at Taylor Rd Conservancy (TMU-1) looking south at conifer plantation (July 19, 2022).

Photo 49. Photo-point 3 at Taylor Rd Conservancy (TMU-2A) looking north at invaded surrogate grassland (July 19, 2022).

Photo 50. Photo-point 4 at Taylor Rd Conservancy (TMU-2B) looking southwest at invaded surrogate grassland (July 19, 2022).

Photo 51. Photo-point 5 at Taylor Rd Conservancy (TMU-1) looking north at conifer plantation (July 19, 2022).

Photo 52. Photo-point 6 at Taylor Rd Conservancy (TMU-1) looking south at a Native American mound (July 19, 2022).

Photo 53. Photo-point 1 at Urso Park (UMU-1) looking south at wet meadow (July 12, 2022).

Photo 54. Photo-point 1 at Urso Park (UMU-1) looking west at wet meadow (foreground) and southern hardwood swamp (background) (July 12, 2022).

Photo 55. Photo-point 2 at Urso Park (UMU-1) looking southwest at shrub-carr (July 12, 2022).

Photo 56. Photo-point 3 at Urso Park (UMU-1) looking northwest at wet meadow (July 12, 2022).

Photo 57. Photo-point 4 at Urso Park (UMU-1) looking north at southern hardwood swamp (July 12, 2022).

Photo 58. Photo-point 5 at Urso Park (UMU-2) looking northeast at oak woodland (July 12, 2022).

Photo 59. Photo-point 5 at Urso Park (UMU-2) looking southwest at oak woodland (July 12, 2022).

Photo 60. Photo-point 6 at Urso Park (UMU-1) looking north at emergent marsh (July 12, 2022).

Photo 61 Photo-point 7 at Urso Park (UMU-1) looking south at the pond (July 12, 2022).

Photo 62. Photo-point 8 at Urso Park (UMU-1) looking east at shrub-carr (July 12, 2022).

Photo 63. Photo-point 8 at Urso Park (UMU-1) looking west at emergent marsh (July 12, 2022).

Photo 64. Photo-point 9 at Urso Park (UMU-3) looking east at an old orchard (July 12, 2022).

Photo 65. Photo-point 1 at Woodland Commons Conservancy (WMU-1) looking southeast at southern dry-mesic forest (July 19, 2022).

Photo 66. Photo-point 2 at Woodland Commons Conservancy (WMU-1) looking southwest at southern dry-mesic forest (July 19, 2022).

Photo 67. Photo-point 3 at Woodland Commons Conservancy (YMU-1) looking north at southern dry-mesic forest (July 19, 2022).

Photo 68. Photo-point 1 at Yahara River Conservancy (YMU-1) looking northeast at emergent marsh (foreground) and floodplain forest (background) (July 19, 2022).

Photo 69. Photo-point 2 at Yahara River Conservancy (YMU-1) looking southwest at floodplain forest (July 19, 2022).

Appendix C. eBird Observation Data

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Waterfowl									
Snow Goose	*Anser caerulescens*			X			X		X
Graylag Goose	*Anser anser*			X		X	X		X
Greater White-fronted Goose	*Anser albifrons*			X		X	X	X	
Cackling Goose	*Branta hutchinsii*			X		X	X		X
Canada Goose	*Branta canadensis*			X	X	X	X	X	X
Mute Swan	*Cygnus olor*			X			X		
Trumpeter Swan	*Cygnus buccinator*			X		X	X		X
Tundra Swan	*Cygnus columbianus*			X		X	X	X	X
Wood Duck	*Aix sponsa*			X		X	X	X	X
Blue-winged Teal	*Spatula discors*			X		X	X	X	
Northern Shoveler	*Spatula clypeata*			X		X	X	X	X
Gadwall	*Mareca strepera*			X		X	X		X
American Wigeon	*Mareca americana*						X		X
Mallard	*Anas platyrhynchos*			X		X	X	X	X
American Black Duck	*Anas rubripes*	Species of Greatest Conservation Need		X		X	X		X
Northern Pintail	*Anas acuta*			X		X	X		X
Green-winged Teal	*Anas crecca*			X			X	X	
Canvasback	*Aythya valisineria*			X		X	X		X
Redhead	*Aythya americana*			X		X	X		X
Ring-necked Duck	*Aythya collaris*			X		X	X		X
Greater Scaup	*Aythya marila*			X		X	X		X
Lesser Scaup	*Aythya affinis*			X		X	X	X	X
Black Scoter	*Melanitta americana*			X					
Bufflehead	*Bucephala albeola*			X		X	X	X	X
Common Goldeneye	*Bucephala clangula*	Species of Greatest Conservation Need		X		X	X	X	X
Hooded Merganser	*Lophodytes cucullatus*			X		X	X		X
Common Merganser	*Mergus merganser*			X		X	X	X	X
Red-breasted Merganser	*Mergus serrator*			X		X	X		
Ruddy Duck	*Oxyura jamaicensis*			X		X	X		
Grouse, Quail, and Allies									
Wild Turkey	*Meleagris gallopavo*			X		X	X	X	X
Grebes									
Pied-billed Grebe	*Podilymbus podiceps*			X		X	X		X
Horned Grebe	*Podiceps auritus*			X					
Red-necked Grebe	*Podiceps grisegena*	Species of Greatest Conservation Need	Endangered	X					
Pigeons and Doves									
Rock Pigeon	*Columba livia*			X		X	X	X	
Mourning Dove	*Zenaida macroura*			X	X	X	X	X	X
Cuckoos									
Yellow-billed Cuckoo	*Coccyzus americanus*			X		X	X	X	
Black-billed Cuckoo	*Coccyzus erythropthalmus*					X		X	

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Nightjars									
Common Nighthawk	*Chordeiles minor*	Species of Greatest Conservation Need		X		X	X		
Swifts									
Chimney Swift	*Chaetura pelagica*			X		X	X	X	X
Hummingbirds									
Ruby-throated Hummingbird	*Archilochus colubris*			X		X		X	
Rails, Gallinules, and Allies									
Virginia Rail	*Rallus limicola*					X			
Sora	*Porzana carolina*					X	X		
American Coot	*Fulica americana*			X		X	X	X	X
Cranes									
Sandhill Crane	*Antigone canadensis*			X	X	X	X	X	X
Shorebirds									
Killdeer	*Charadrius vociferus*			X		X	X	X	X
Semipalmated Plover	*Charadrius semipalmatus*								X
Least Sandpiper	*Calidris minutilla*						X		
Pectoral Sandpiper	*Calidris melanotos*							X	
American Woodcock	*Scolopax minor*	Species of Greatest Conservation Need				X		X	
Wilson's Snipe	*Gallinago delicata*						X	X	
Spotted Sandpiper	*Actitis macularius*			X		X	X		
Solitary Sandpiper	*Tringa solitaria*			X		X	X	X	
Lesser Yellowlegs	*Tringa flavipes*			X		X	X		
Greater Yellowlegs	*Tringa melanoleuca*					X	X	X	
Gulls, Terns and Skimmers									
Bonaparte's Gull	*Chroicocephalus philadelphia*			X		X	X		
Ring-billed Gull	*Larus delawarensis*			X		X	X	X	X
Herring Gull	*Larus argentatus*			X		X	X	X	X
Glaucous Gull	*Larus hyperboreus*			X					
Caspian Tern	*Hydroprogne caspia*	Species of Greatest Conservation Need	Endangered	X		X	X		
Black Tern	*Chlidonias niger*	Species of Greatest Conservation Need	Endangered	X			X		
Forster's Tern	*Sterna forsteri*	Species of Greatest Conservation Need	Endangered	X		X	X		
Loons									
Common Loon	*Gavia immer*			X		X	X		
Cormorants and Anhinga									
Double-crested Cormorant	*Phalacrocorax auritus*			X		X	X	X	
Pelicans									
American White Pelican	*Pelecanus erythrorhynchos*			X		X	X	X	
Herons, Ibis, and Allies									
Least Bittern	*Ixobrychus exilis*	Species of Greatest Conservation Need		X			X		
Great Blue Heron	*Ardea herodias*			X		X	X	X	X

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Great Egret	*Ardea alba*	Species of Greatest Conservation Need	Threatened	X		X	X	X	
Green Heron	*Butorides virescens*			X		X	X	X	X
Black-crowned Night-Heron	*Nycticorax nycticorax*	Species of Greatest Conservation Need		X			X		
Vultures, Hawks, and Allies									
Turkey Vulture	*Cathartes aura*			X		X	X	X	X
Osprey	*Pandion haliaetus*			X		X	X	X	
Northern Harrier	*Circus hudsonius*						X		
Sharp-shinned Hawk	*Accipiter striatus*			X		X			
Cooper's Hawk	*Accipiter cooperii*			X	X	X	X	X	X
Bald Eagle	*Haliaeetus leucocephalus*			X		X	X	X	X
Red-shouldered Hawk	*Buteo lineatus*	Species of Greatest Conservation Need	Threatened			X			
Broad-winged Hawk	*Buteo platypterus*			X		X			
Red-tailed Hawk	*Buteo jamaicensis*			X	X	X	X	X	X
Rough-legged Hawk	*Buteo lagopus*						X		
Ferruginous Hawk	*Buteo regalis*			X					
Owls									
Eastern Screech-Owl	*Megascops asio*					X	X	X	
Great Horned Owl	*Bubo virginianus*			X		X	X	X	
Barred Owl	*Strix varia*					X		X	
Kingfisher									
Belted Kingfisher	*Megaceryle alcyon*			X		X	X	X	X
Woodpeckers									
Red-headed Woodpecker	*Melanerpes erythrocephalus*					X	X		
Red-bellied Woodpecker	*Melanerpes carolinus*			X	X	X	X	X	X
Yellow-bellied Sapsucker	*Sphyrapicus varius*			X		X	X	X	X
Downy Woodpecker	*Dryobates pubescens*			X		X	X	X	X
Hairy Woodpecker	*Dryobates villosus*			X	X	X	X	X	X
Northern Flicker	*Colaptes auratus*			X		X	X	X	X
Pileated Woodpecker	*Dryocopus pileatus*					X			X
Falcons and Caracara									
American Kestrel	*Falco sparverius*			X		X	X	X	
Merlin	*Falco columbarius*			X		X			
Flycatchers									
Olive-sided Flycatcher	*Contopus cooperi*	Species of Greatest Conservation Need				X			
Eastern Wood-Pewee	*Contopus virens*			X		X	X	X	
Yellow-bellied Flycatcher	*Empidonax flaviventris*					X	X		
Alder Flycatcher	*Empidonax alnorum*					X	X	X	
Willow Flycatcher	*Empidonax traillii*					X	X	X	X

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Least Flycatcher	*Empidonax minimus*	Species of Greatest Conservation Need				X	X	X	
Eastern Phoebe	*Sayornis phoebe*			X		X	X	X	
Great Crested Flycatcher	*Myiarchus crinitus*			X		X	X	X	X
Eastern Kingbird	*Tyrannus tyrannus*			X		X	X	X	X
Vireos									
White-eyed Vireo	*Vireo griseus*					X			
Yellow-throated Vireo	*Vireo flavifrons*			X		X	X	X	
Blue-headed Vireo	*Vireo solitarius*					X		X	
Philadelphia Vireo	*Vireo philadelphicus*					X		X	
Warbling Vireo	*Vireo gilvus*			X		X	X	X	X
Red-eyed Vireo	*Vireo olivaceus*			X		X	X	X	
Shrikes									
Northern Shrike	*Lanius borealis*			X			X		
Jays, Magpies, Crows, and Ravens									
Blue Jay	*Cyanocitta cristata*			X	X	X	X	X	X
American Crow	*Corvus brachyrhynchos*			X	X	X	X	X	X
Tits, Chickadees, and Titmice									
Black-capped Chickadee	*Poecile atricapillus*			X	X	X	X	X	X
Tufted Titmouse	*Baeolophus bicolor*			X		X	X	X	X
Larks									
Horned Lark	*Eremophila alpestris*			X			X		
Martins and Swallows									
Bank Swallow	*Riparia riparia*			X		X	X	X	X
Tree Swallow	*Tachycineta bicolor*			X		X	X	X	X
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*			X		X	X		X
Purple Martin	*Progne subis*	Species of Greatest Conservation Need		X		X	X		X
Barn Swallow	*Hirundo rustica*			X		X	X	X	X
Cliff Swallow	*Petrochelidon pyrrhonota*			X		X	X		X
Kinglets									
Ruby-crowned Kinglet	*Regulus calendula*	Species of Greatest Conservation Need		X		X	X	X	
Golden-crowned Kinglet	*Regulus satrapa*			X		X	X	X	X
Nuthatches									
Red-breasted Nuthatch	*Sitta canadensis*			X		X	X	X	X
White-breasted Nuthatch	*Sitta carolinensis*			X	X	X	X	X	X
Treecreepers									
Brown Creeper	*Certhia americana*			X		X	X	X	X
Gnatcatcher									
Blue-gray Gnatcatcher	*Polioptila caerulea*			X		X	X	X	
Wrens									
House Wren	*Troglodytes aedon*			X		X	X	X	X
Winter Wren	*Troglodytes hiemalis*					X	X	X	
Sedge Wren	*Cistothorus platensis*							X	

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Marsh Wren	*Cistothorus palustris*					X	X		X
Carolina Wren	*Thryothorus ludovicianus*			X		X	X		
Starlings and Mynas									
European Starling	*Sturnus vulgaris*			X	X	X	X	X	X
Catbirds and Thrashers									
Gray Catbird	*Dumetella carolinensis*			X			X	X	X
Brown Thrasher	*Toxostoma rufum*							X	
Thrushes									
Eastern Bluebird	*Sialia sialis*			X			X	X	
Veery	*Catharus fuscescens*					X	X	X	
Gray-cheeked Thrush	*Catharus minimus*			X		X		X	
Swainson's Thrush	*Catharus ustulatus*	Species of Greatest Conservation Need				X	X	X	X
Hermit Thrush	*Catharus guttatus*					X	X	X	
Wood Thrush	*Hylocichla mustelina*					X	X	X	
American Robin	*Turdus migratorius*			X		X	X	X	X
Waxwings									
Cedar Waxwing	*Bombycilla cedrorum*			X		X	X	X	X
Old World Sparrows									
House Sparrow	*Passer domesticus*			X	X	X		X	X
Finches, Euphonias, and Allies									
House Finch	*Haemorhous mexicanus*			X	X	X	X	X	X
Purple Finch	*Haemorhous purpureus*			X		X	X	X	
Common Redpoll	*Acanthis flammea*			X		X	X		X
White-winged Crossbill	*Loxia leucoptera*			X		X		X	
Pine Siskin	*Spinus pinus*			X		X	X	X	X
American Goldfinch	*Spinus tristis*			X		X	X	X	X
New World Sparrows									
Chipping Sparrow	*Spizella passerina*			X		X	X	X	X
Clay-colored Sparrow	*Spizella pallida*						X		
Field Sparrow	*Spizella pusilla*					X	X	X	
Fox Sparrow	*Passerella iliaca*			X		X	X	X	
American Tree Sparrow	*Spizelloides arborea*			X		X	X	X	X
Dark-eyed Junco	*Junco hyemalis*			X		X	X	X	X
White-crowned Sparrow	*Zonotrichia leucophrys*			X		X	X	X	
White-throated Sparrow	*Zonotrichia albicollis*			X		X	X	X	X
Vesper Sparrow	*Pooecetes gramineus*	Species of Greatest Conservation Need						X	
Henslow's Sparrow	*Centronyx henslowii*	Species of Greatest Conservation Need	Threatened					X	
Savannah Sparrow	*Passerculus sandwichensis*					X			
Song Sparrow	*Melospiza melodia*			X	X	X	X	X	X
Lincoln's Sparrow	*Melospiza lincolnii*					X	X	X	
Swamp Sparrow	*Melospiza georgiana*			X		X	X	X	X

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Eastern Towhee	*Pipilo erythrophthalmus*					X	X	X	
Blackbirds									
Bobolink	*Dolichonyx oryzivorus*	Species of Greatest Conservation Need				X			
Eastern Meadowlark	*Sturnella magna*	Species of Greatest Conservation Need				X			
Orchard Oriole	*Icterus spurius*					X	X		
Baltimore Oriole	*Icterus galbula*			X		X	X	X	X
Red-winged Blackbird	*Agelaius phoeniceus*			X	X	X	X	X	X
Brown-headed Cowbird	*Molothrus ater*			X		X	X	X	
Rusty Blackbird	*Euphagus carolinus*	Species of Greatest Conservation Need		X		X	X	X	
Common Grackle	*Quiscalus quiscula*			X		X	X	X	X
Wood-Warblers									
Ovenbird	*Seiurus aurocapilla*					X	X	X	
Worm-eating Warbler	*Helmitheros vermivorum*	Species of Greatest Conservation Need	Endangered			X			
Northern Waterthrush	*Parkesia noveboracensis*					X	X	X	X
Golden-winged Warbler	*Vermivora chrysoptera*	Species of Greatest Conservation Need		X		X		X	
Blue-winged Warbler	*Vermivora cyanoptera*					X		X	
Black-and-white Warbler	*Mniotilta varia*					X	X	X	
Prothonotary Warbler	*Protonotaria citrea*	Species of Greatest Conservation Need		X			X		
Tennessee Warbler	*Leiothlypis peregrina*			X		X	X	X	X
Orange-crowned Warbler	*Leiothlypis celata*			X		X	X	X	
Nashville Warbler	*Leiothlypis ruficapilla*					X	X	X	
Connecticut Warbler	*Oporornis agilis*	Species of Greatest Conservation Need				X			
Mourning Warbler	*Geothlypis philadelphia*					X			
Common Yellowthroat	*Geothlypis trichas*			X		X	X	X	
Hooded Warbler	*Setophaga citrina*	Species of Greatest Conservation Need	Threatened				X		
American Redstart	*Setophaga ruticilla*			X		X	X	X	
Cape May Warbler	*Setophaga tigrina*					X			
Cerulean Warbler	*Setophaga cerulea*	Species of Greatest Conservation Need	Threatened			X			
Northern Parula	*Setophaga americana*					X	X	X	
Magnolia Warbler	*Setophaga magnolia*					X		X	

Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Bay-breasted Warbler	*Setophaga castanea*					X	X	X	
Blackburnian Warbler	*Setophaga fusca*					X	X	X	
Yellow Warbler	*Setophaga petechia*			X		X	X	X	X
Chestnut-sided Warbler	*Setophaga pensylvanica*					X	X	X	
Blackpoll Warbler	*Setophaga striata*					X	X		
Black-throated Blue Warbler	*Setophaga caerulescens*					X	X		
Palm Warbler	*Setophaga palmarum*			X		X	X	X	
Pine Warbler	*Setophaga pinus*			X		X	X		
Yellow-rumped Warbler	*Setophaga coronata*			X		X	X	X	
Black-throated Green Warbler	*Setophaga virens*			X		X	X	X	
Canada Warbler	*Cardellina canadensis*					X		X	
Wilson's Warbler	*Cardellina pusilla*					X	X	X	
Cardinals, Grosbeaks, and Allies									
Summer Tanager	*Piranga rubra*					X			
Scarlet Tanager	*Piranga olivacea*			X		X	X	X	
Northern Cardinal	*Cardinalis cardinalis*			X	X	X	X	X	X
Rose-breasted Grosbeak	*Pheucticus ludovicianus*			X		X	X	X	X
Indigo Bunting	*Passerina cyanea*			X		X	X	X	

Note: eBird observation data are lacking for Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy.

Appendix D. Percent Cover Data Set

Appendix E. Floristic Quality Assessment Data Set

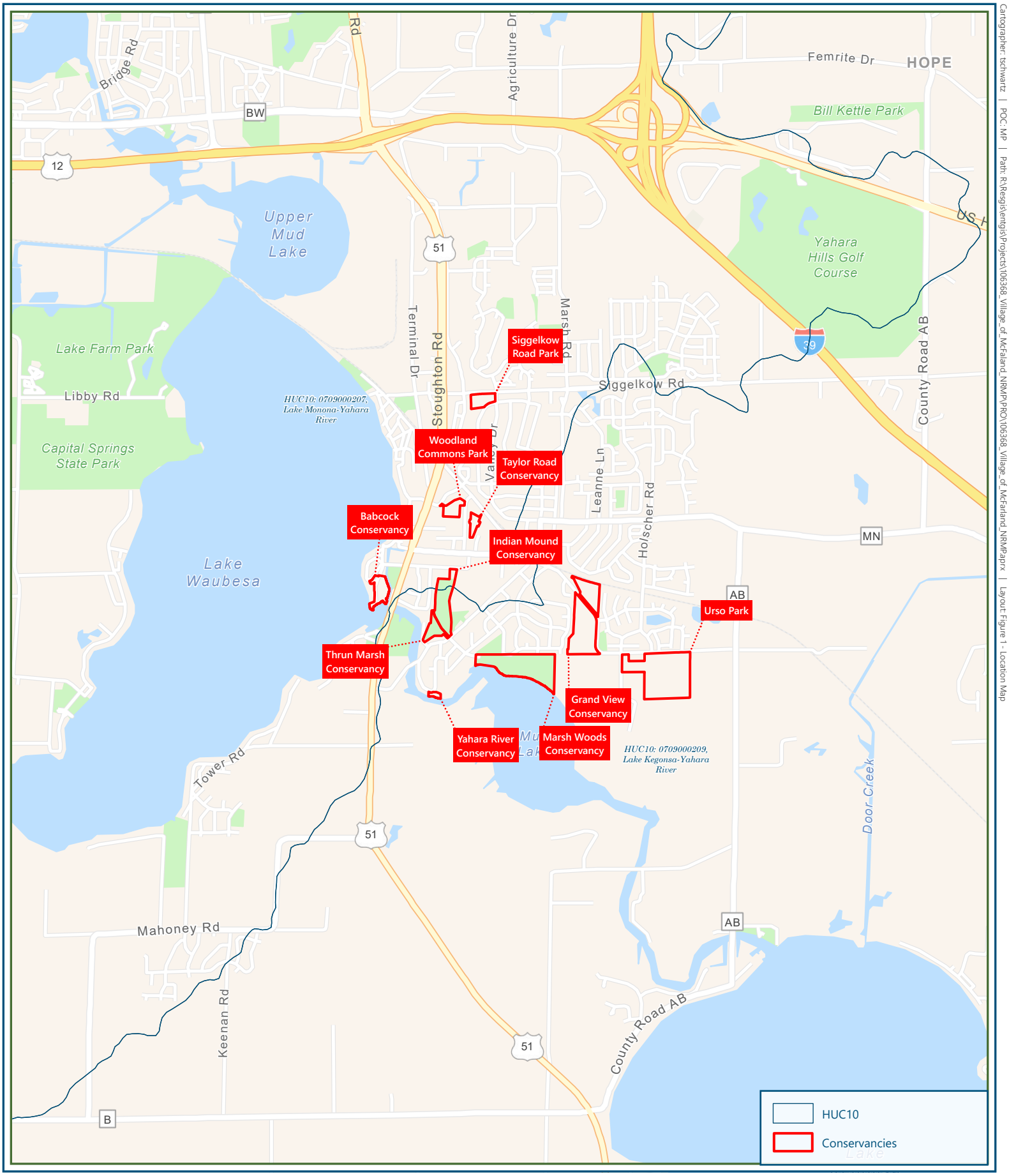

Figure 1
Location Map

McFarland Conservancy Management Plan
Dane Co, WI

N

1 in = 4,857 ft

0 2,000 4,000

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference:
WGS 1984 Web Mercator Auxiliary Sphere
Date Exported: 1/24/2023
Project Number: 106368

res
www.res.us

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\ventgis\Projects\106368_Village_of_McFarland_NRM\PROJ\106368_Village_of_McFarland_NRM.aprx | Layout: Figure 1 - Location Map

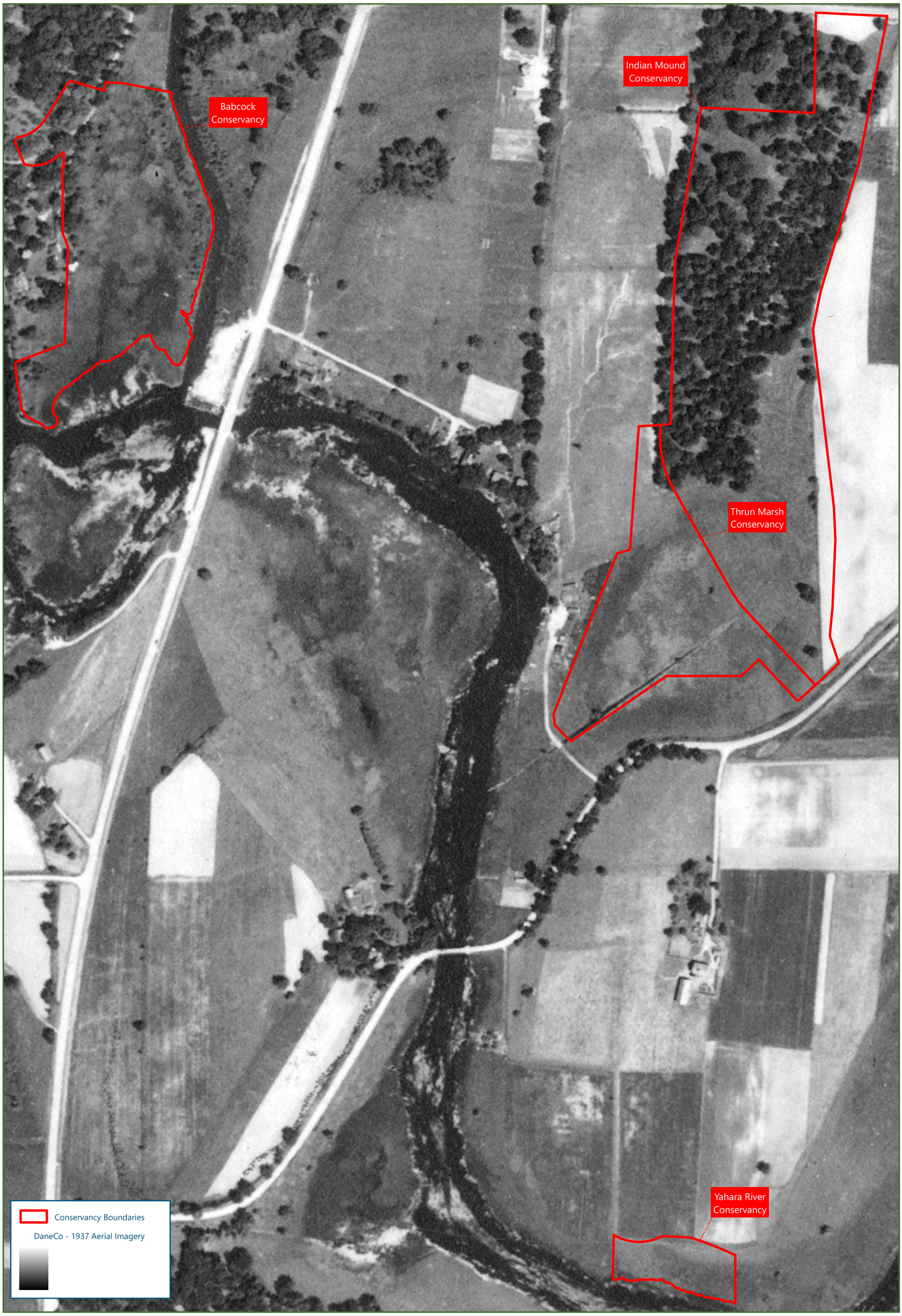

Figure 2a
1937 Aerial Imagery

McFarland Conservancy Management Plan
Dane Co, WI

N

1 in = 250 ft

0 125 250
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/10/2023
Project Number: 106368

res
www.res.us

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 2- 1937 Aerial

Figure 2b
1937 Aerial Imagery

McFarland Conservancy Management Plan
Dane Co, WI

N

0 205 410
Feet
1 in = 396 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/10/2023
Project Number: 106368

res

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 2 - 1937 Aerial Imagery (Landscape)

Figure 2c
1937 Aerial Imagery

McFarland Conservancy Management Plan
Dane Co, WI

N
1 in = 292 ft
0 150 300
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/10/2023
Project Number: 106368

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www.res.us

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 2- 1937 Aerial

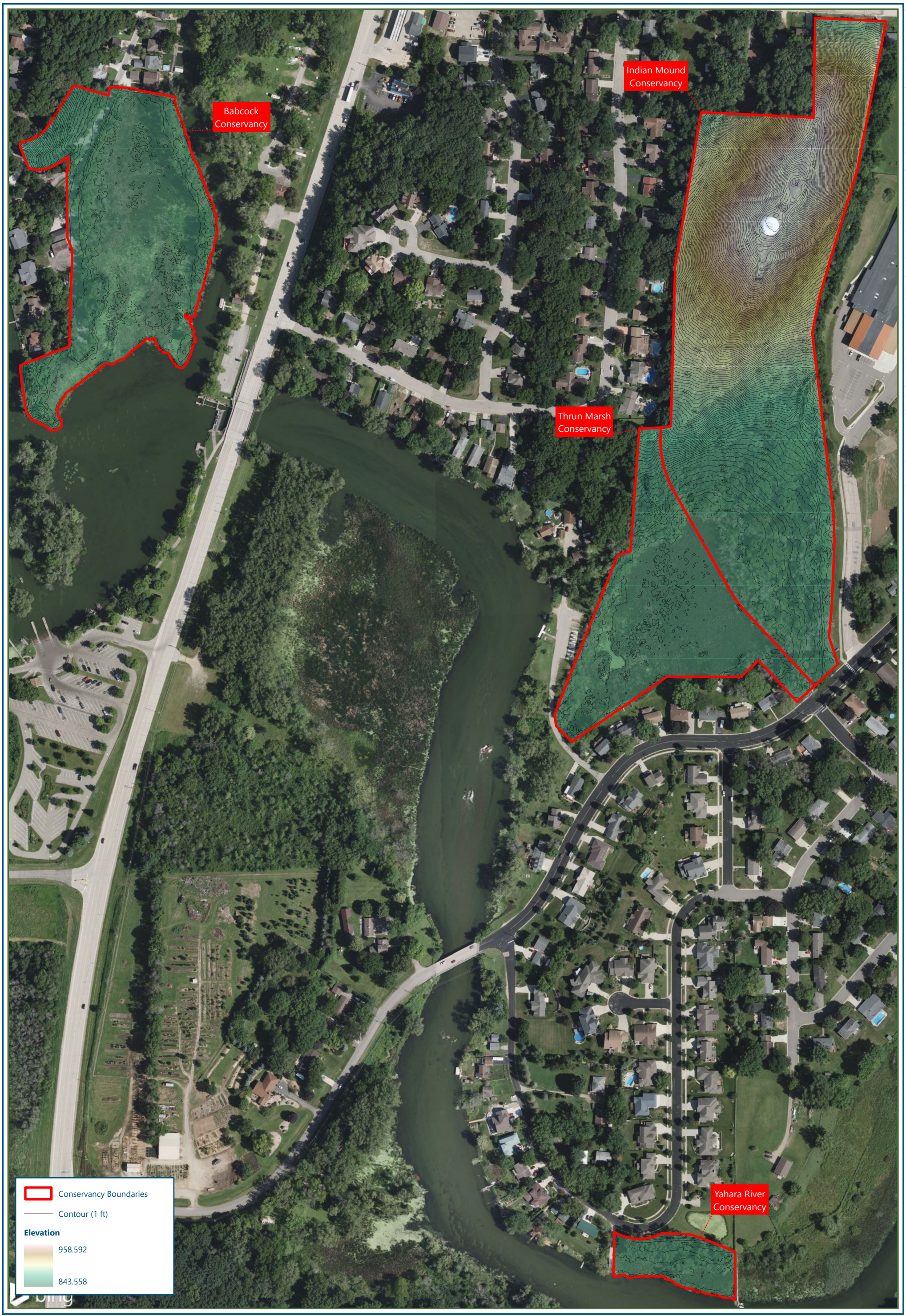

Figure 3a
Topography

McFarland Conservancy Management Plan
Dane Co, WI

N

1 in = 250 ft

0 125 250
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

res
www.res.us

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 3 - Topography (Portra

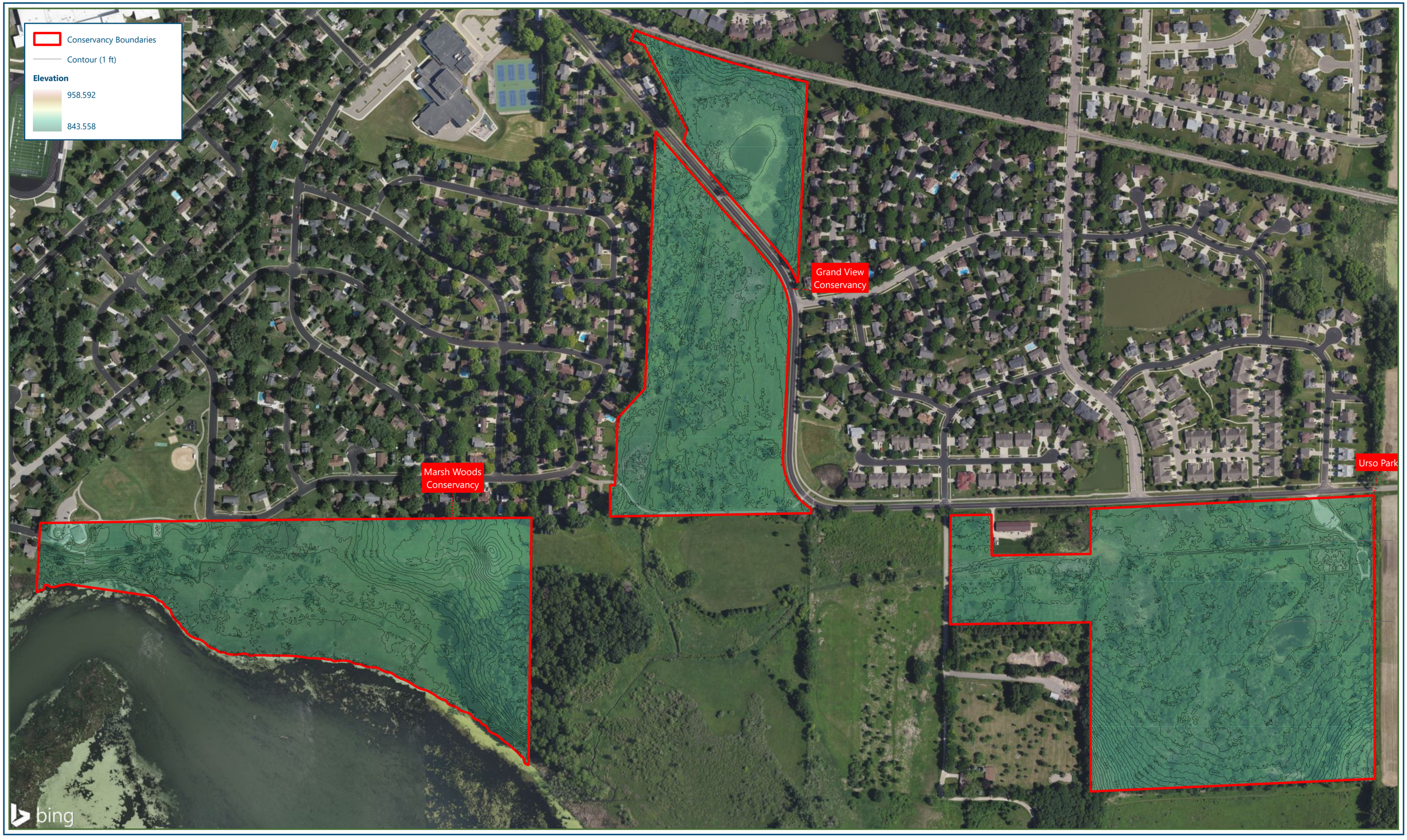

Figure 3b
Topography

McFarland Conservancy Management Plan
Dane Co, WI

N

0 205 410
Feet
1 in = 396 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

res

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 3 - Topography (Landscape)

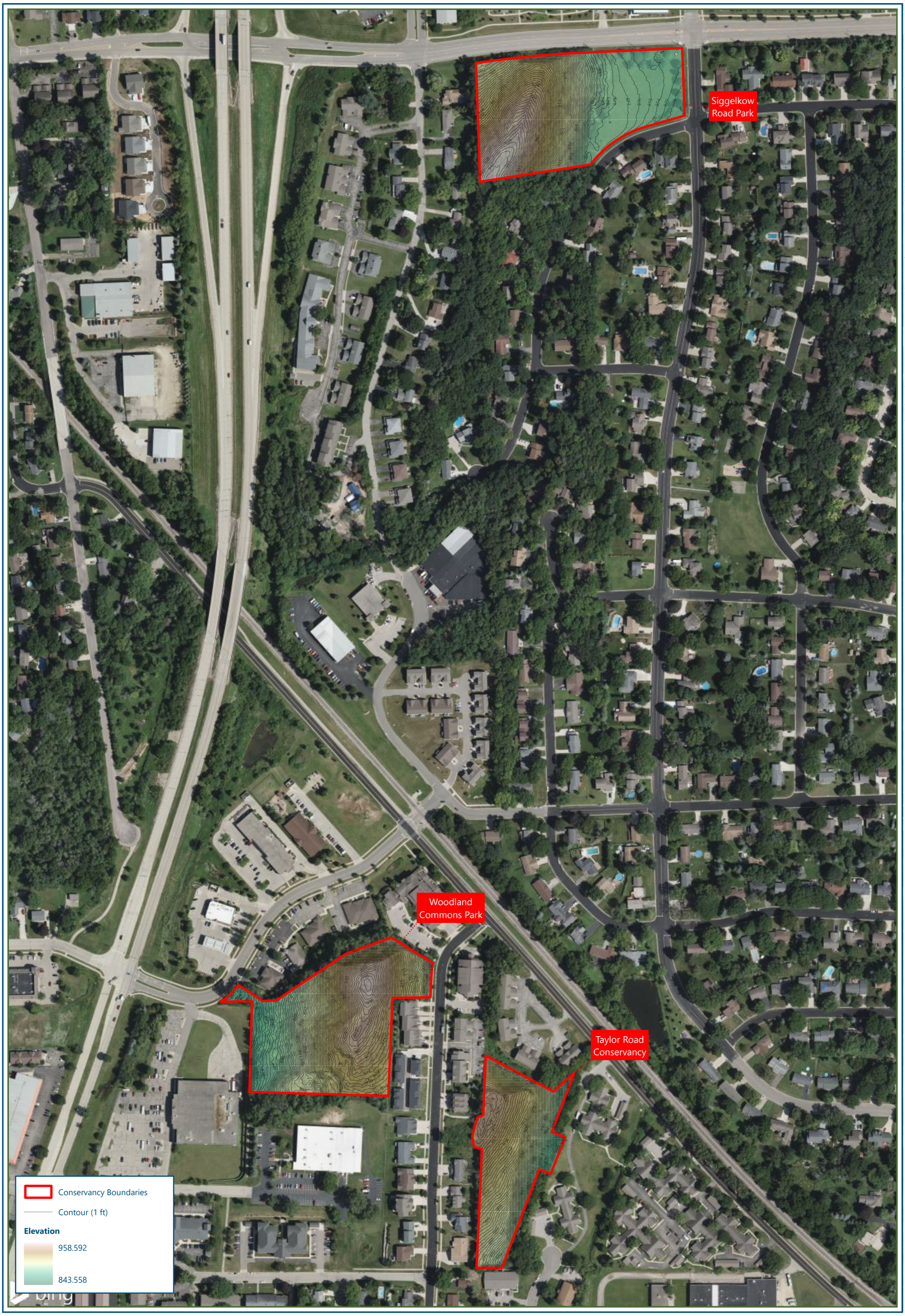

Figure 3c
Topography

McFarland Conservancy Management Plan
Dane Co, WI

N
1 in = 292 ft
0 150 300
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

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www.res.us

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 3 - Topography (Portra

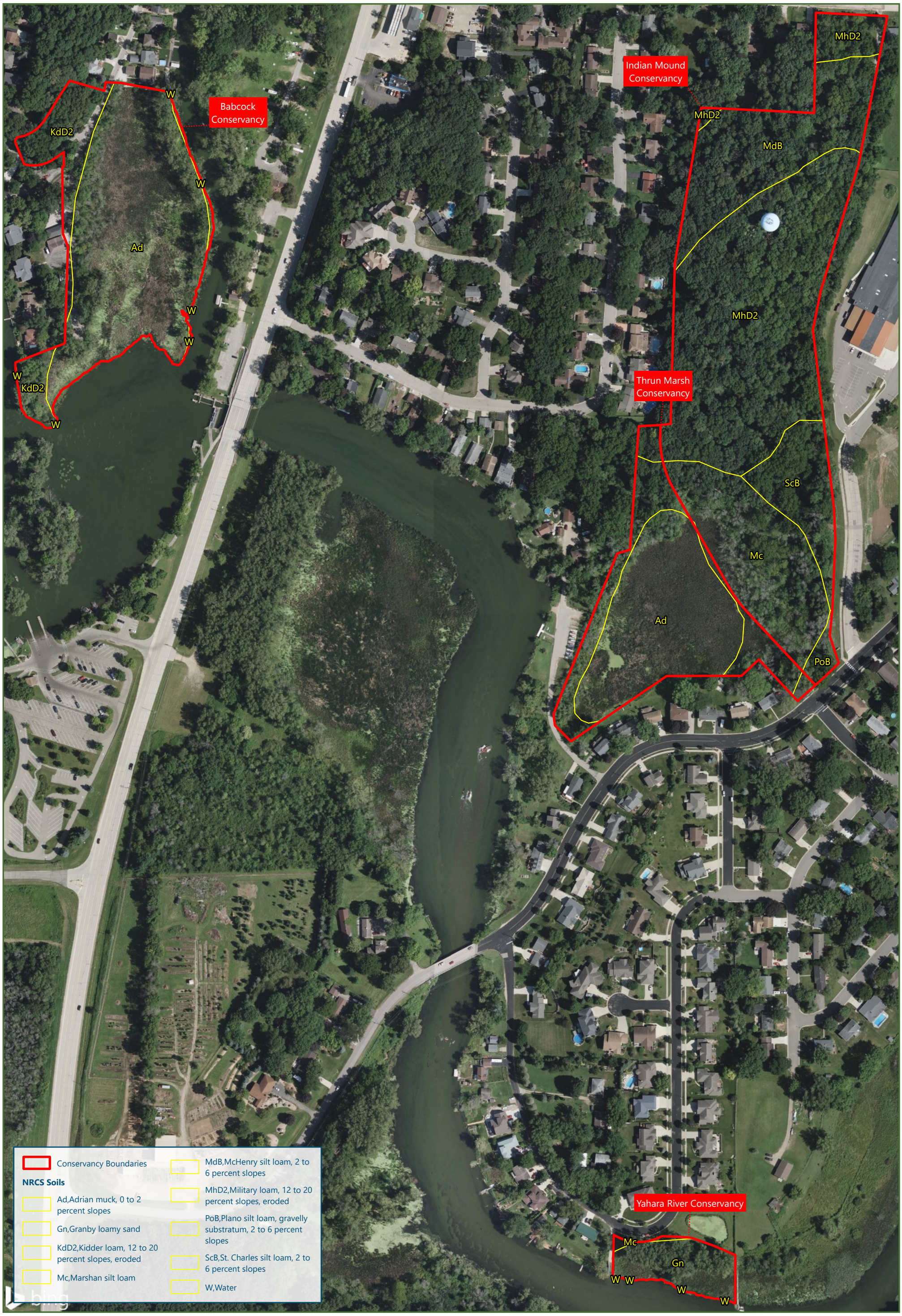


Figure 4a
NRCS Soils

McFarland Conservancy Management Plan
Dane Co, WI

N
1 in = 250 ft
0 125 250
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: NRCS
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368

res
www.res.us

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 4 - Soils Map

Figure 4b
NRCS Soils

McFarland Conservancy Management Plan
Dane Co, WI

N

0 205 410
Feet
1 in = 396 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographyer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368

res

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 4 - Soils Map (Landscape)

Figure 4c
NRCS Soils

McFarland Conservancy Management Plan
Dane Co, WI

N

1 in = 292 ft

0 150 300
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: NRCS
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368

res
www.res.us

Cartographer: tschwartz | POC: XXXX | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 4 - Soils Map

Figure 5a
Existing Plant Communities

Babcock Conservancy

N

1 in = 117 ft

0 60 120

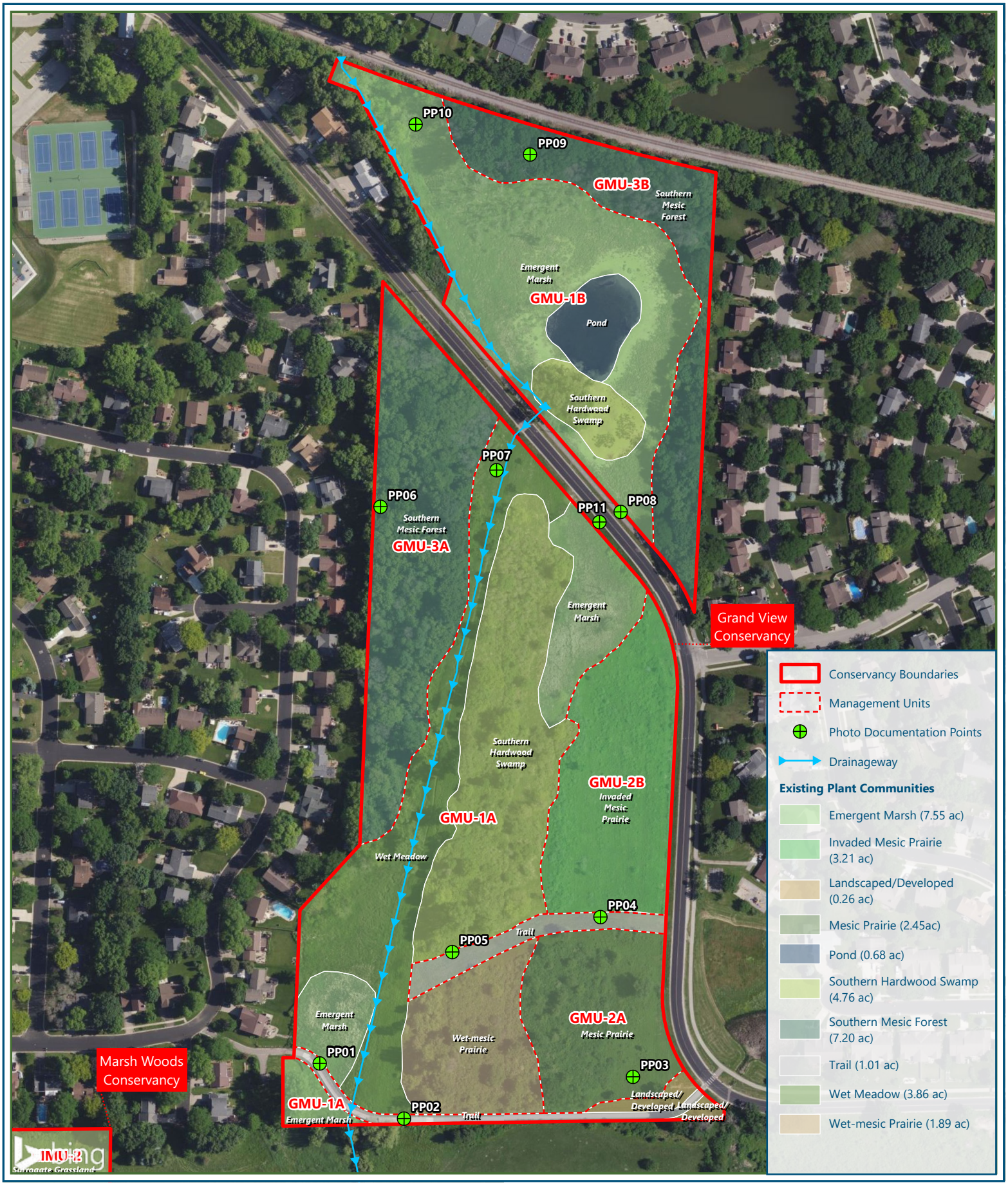
Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

www.res.us

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMP.aprx | Layout: Figure 5 - Existing Plant Communities (Portrait)



Cartographer: tschwartz | POC: MP | Path: R:\Regis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMP.aprx | Layout: Figure 5 - Existing Plant Communities (Portrait)

Figure 5b
Existing Plant Communities

Grand View Conservancy

N

1 in = 263 ft

0 135 270

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

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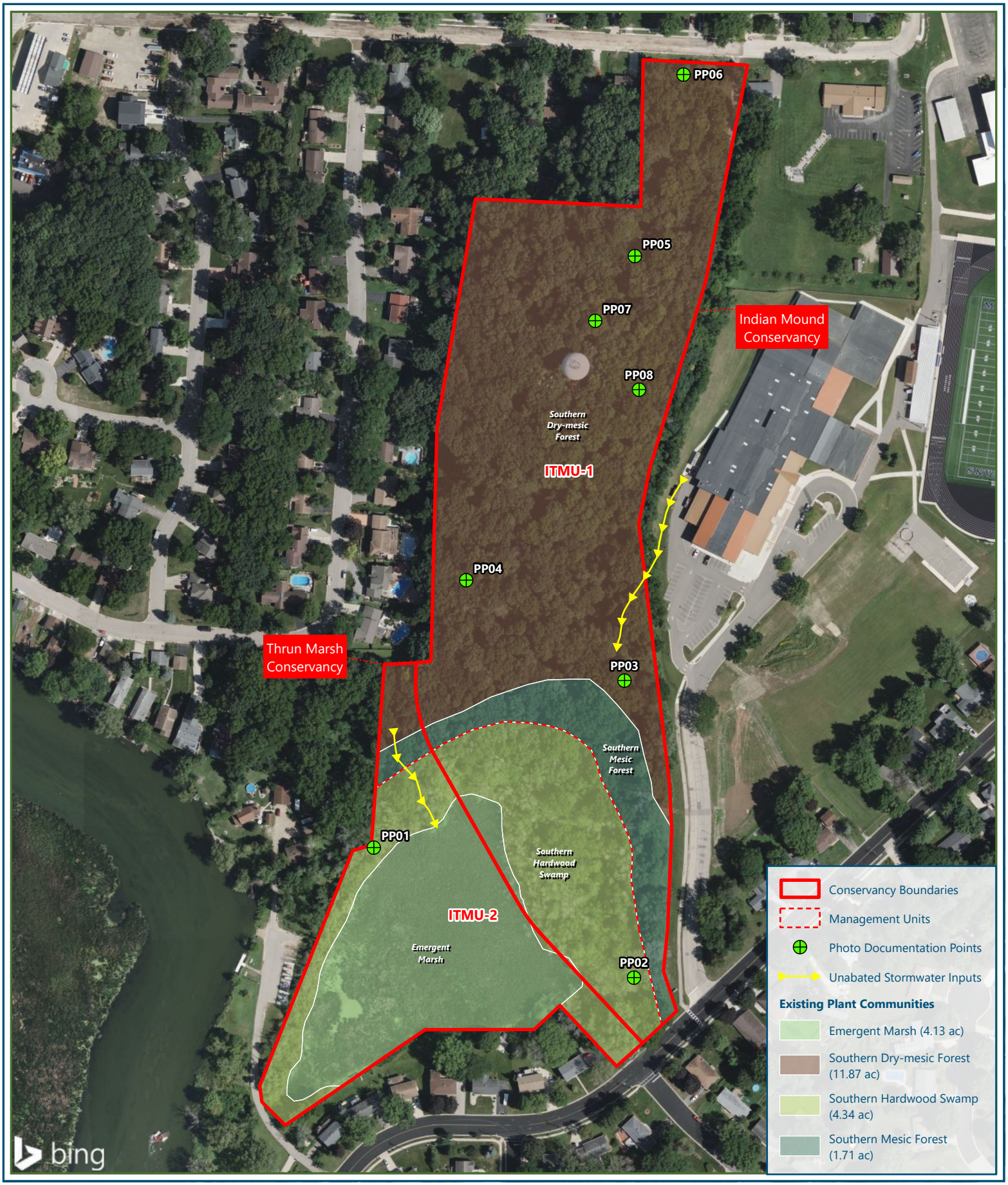

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 5 - Existing Plant Communities (Portrait)

Figure 5c
Existing Plant Communities

Indian Mound & Thrun Marsh Conservancy

N

1 in = 246 ft

0 125 250

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

www.res.us

Figure 5d
Existing Plant Communities

Marsh Woods Conservancy

N

0 120 240
Feet
1 in = 238 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

www.res.us

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 5 - Existing Plant Communities (Landscape)

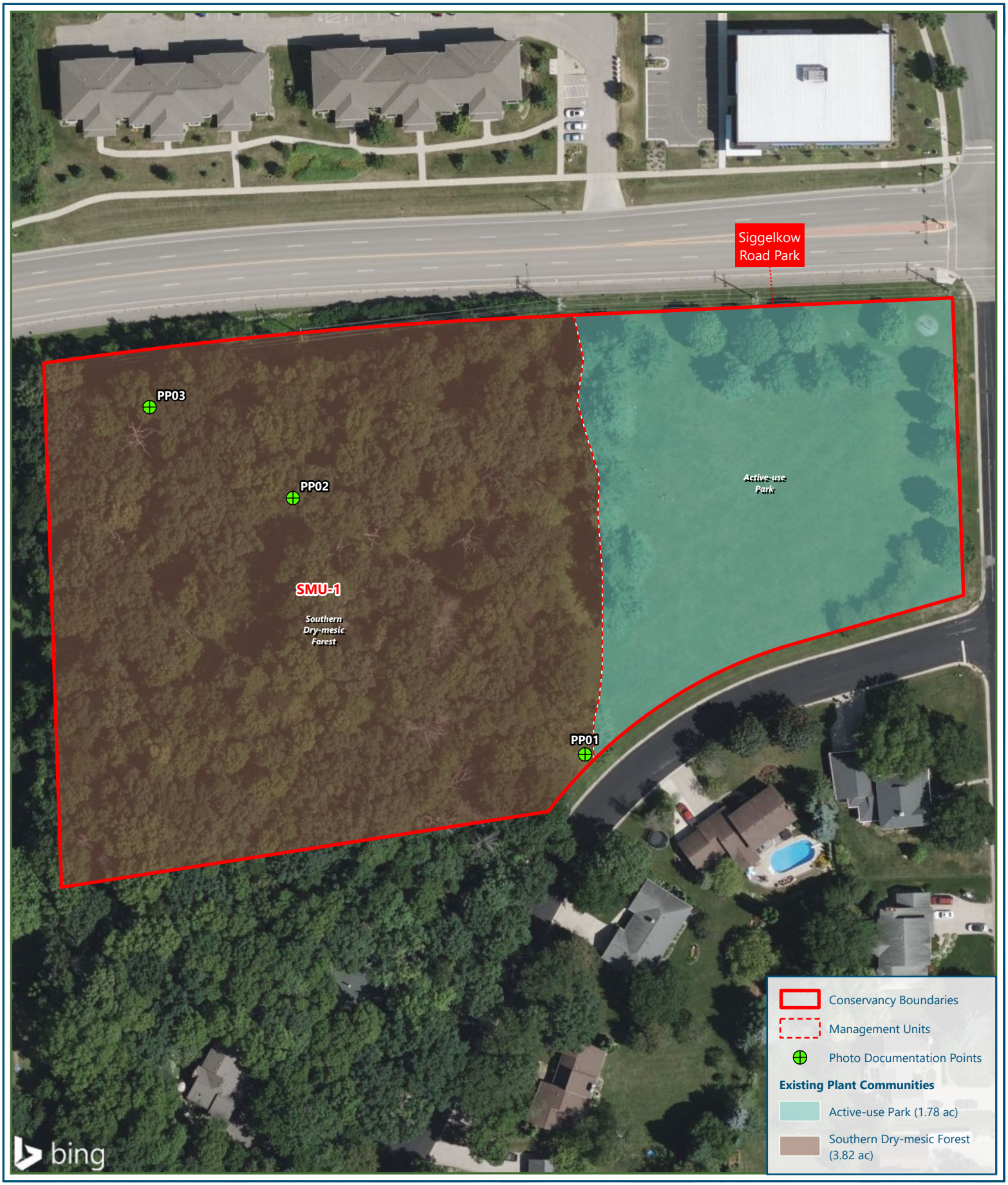

Figure 5e
Existing Plant Communities

Siggelkow Road Park

N

1 in = 96 ft

0 50 100

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 5 - Existing Plant Communities (Portrait)

Figure 5f
Existing Plant Communities

Taylor Road Conservancy

N

1 in = 83 ft

0 40 80

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 5 - Existing Plant Communities (Portrait)

Figure 5g
Existing Plant Communities

Urso Park

N

0 112.5 225
Feet
1 in = 217 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 5 - Existing Plant Communities (Landscape)

Figure 5h
Existing Plant Communities

Woodland Commons Park

N

1 in = 100 ft

0 50 100

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Cartographer: tschwartz | POC: MP | Path: R:\Regis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 5 - Existing Plant Communities (Portrait)

Figure 5i
Existing Plant Communities

Yahara River Conservancy

N

1 in = 50 ft

0 25 50

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 5 - Existing Plant Communities (Portrait)

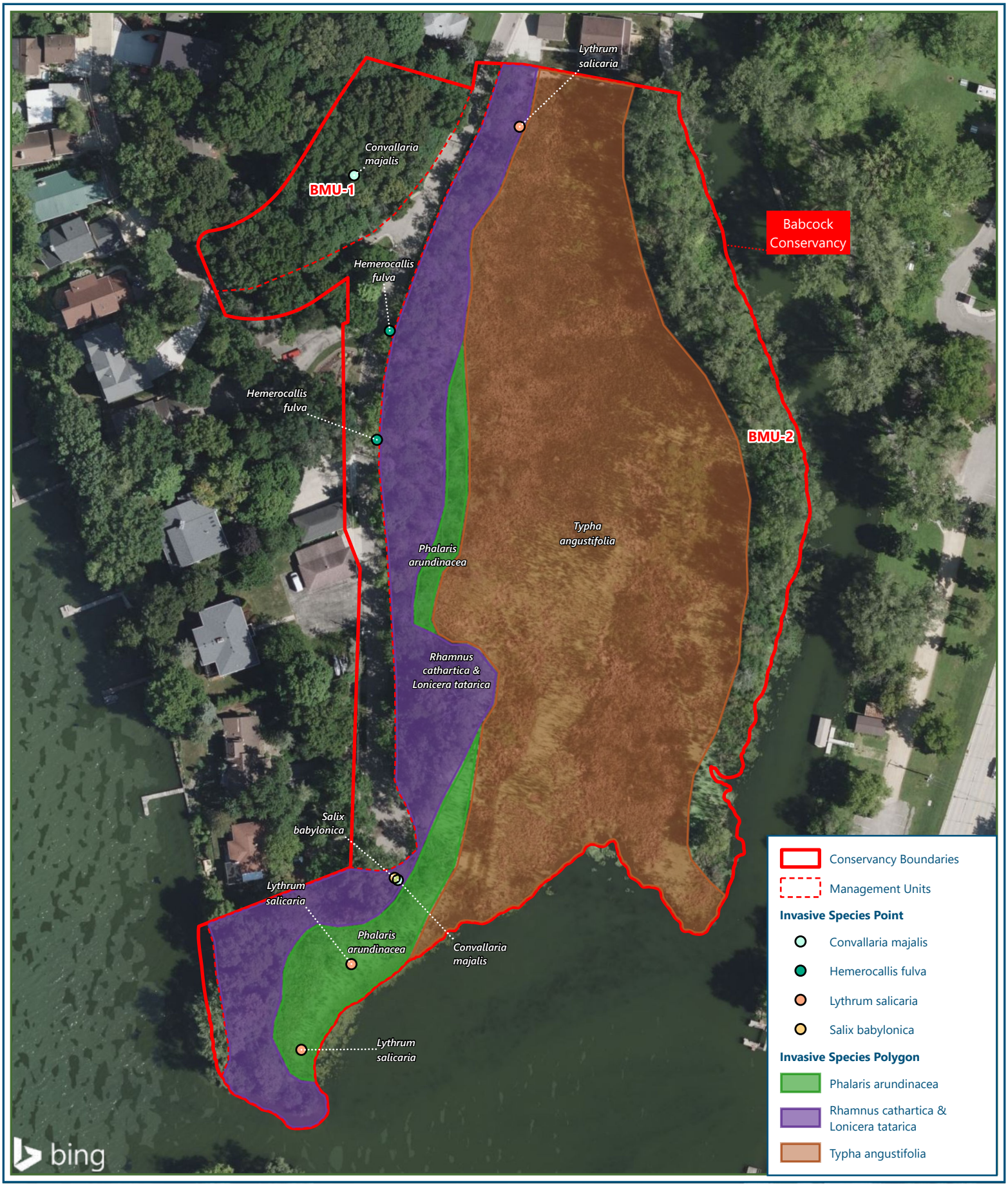

Figure 6a
Invasive Species

Babcock Conservancy

N

1 in = 117 ft

0 60 120

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMPaprx | Layout: Figure 6 - Invasive Species Map (Portrait)

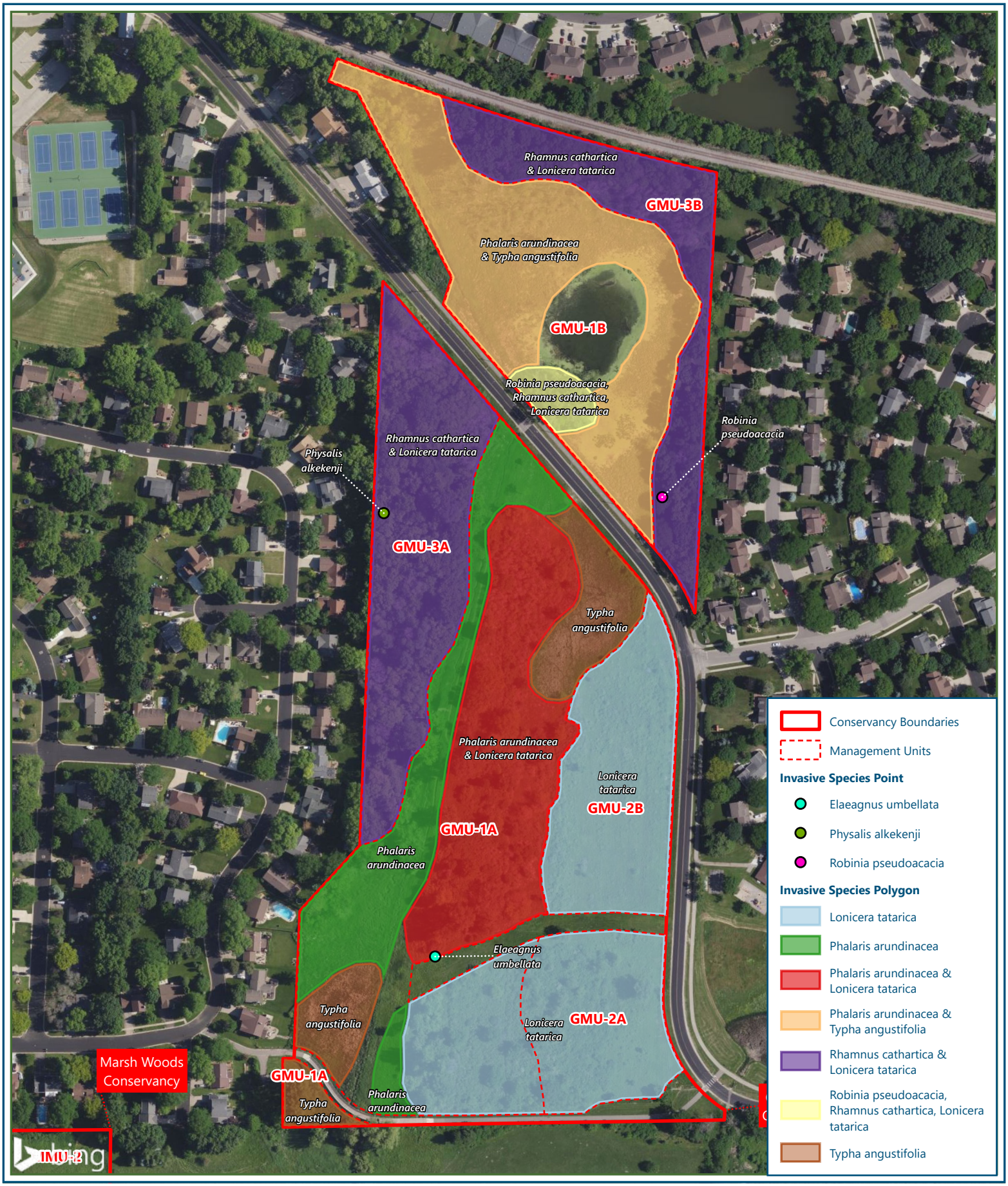

Figure 6b
Invasive Species

Grand View Conservancy

N

1 in = 263 ft

0 135 270

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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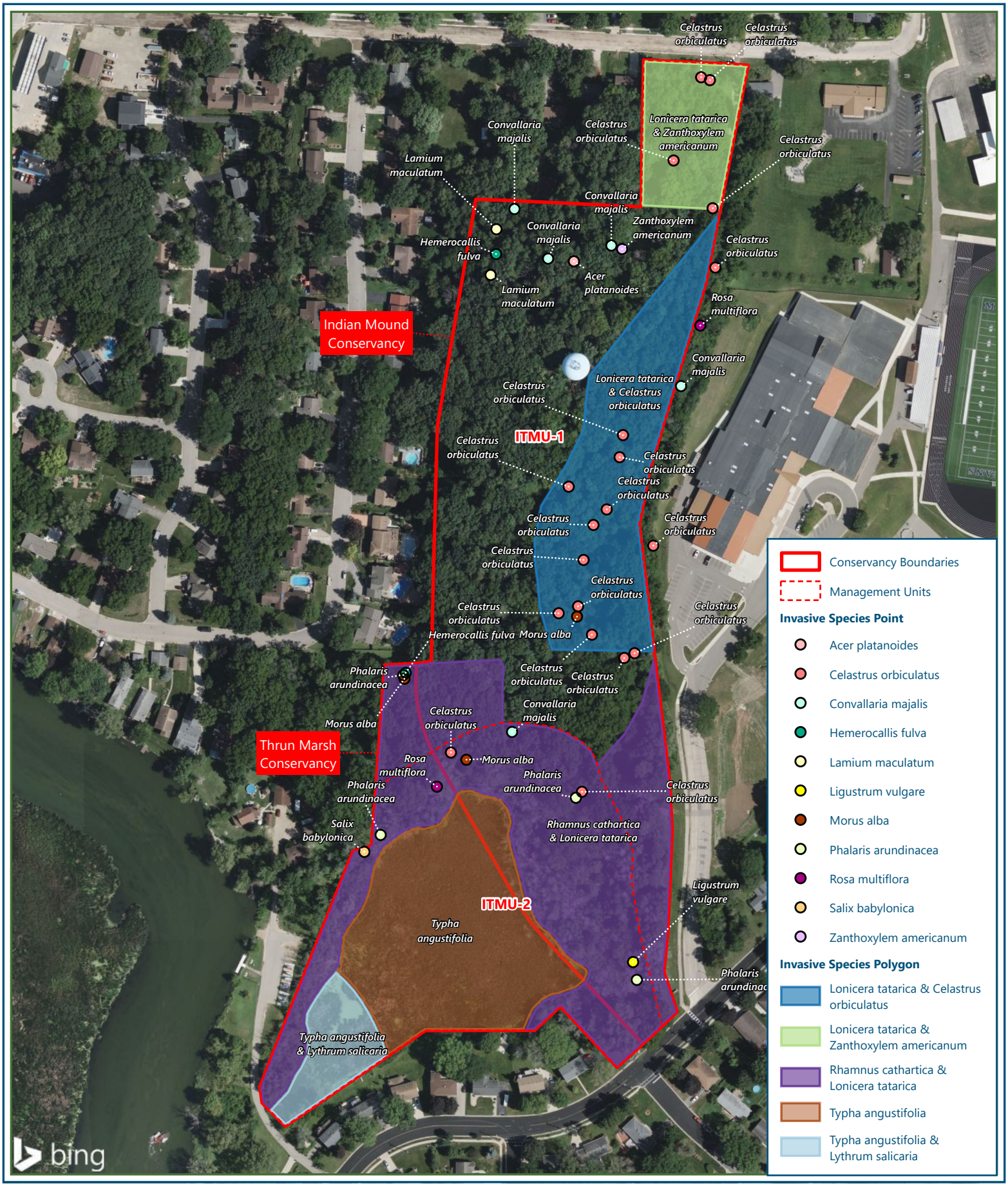
Cartographer: tschwartz | POC: MP | Path: R:\Regis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMP.aprx | Layout: Figure 6 - Invasive Species Map (Portrait)



Cartographer: tschwartz | POC: MP | Path: R:\Regis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMP.aprx | Layout: Figure 6 - Invasive Species Map (Portrait)

Figure 6c
Invasive Species

Indian Mound & Thrun Marsh Conservancy

N

1 in = 246 ft

0 125 250

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

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Figure 6d
Invasive Species

Marsh Woods Conservancy

N

0 120 240
Feet
1 in = 238 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 6 - Invasive Species Map (Landscape)

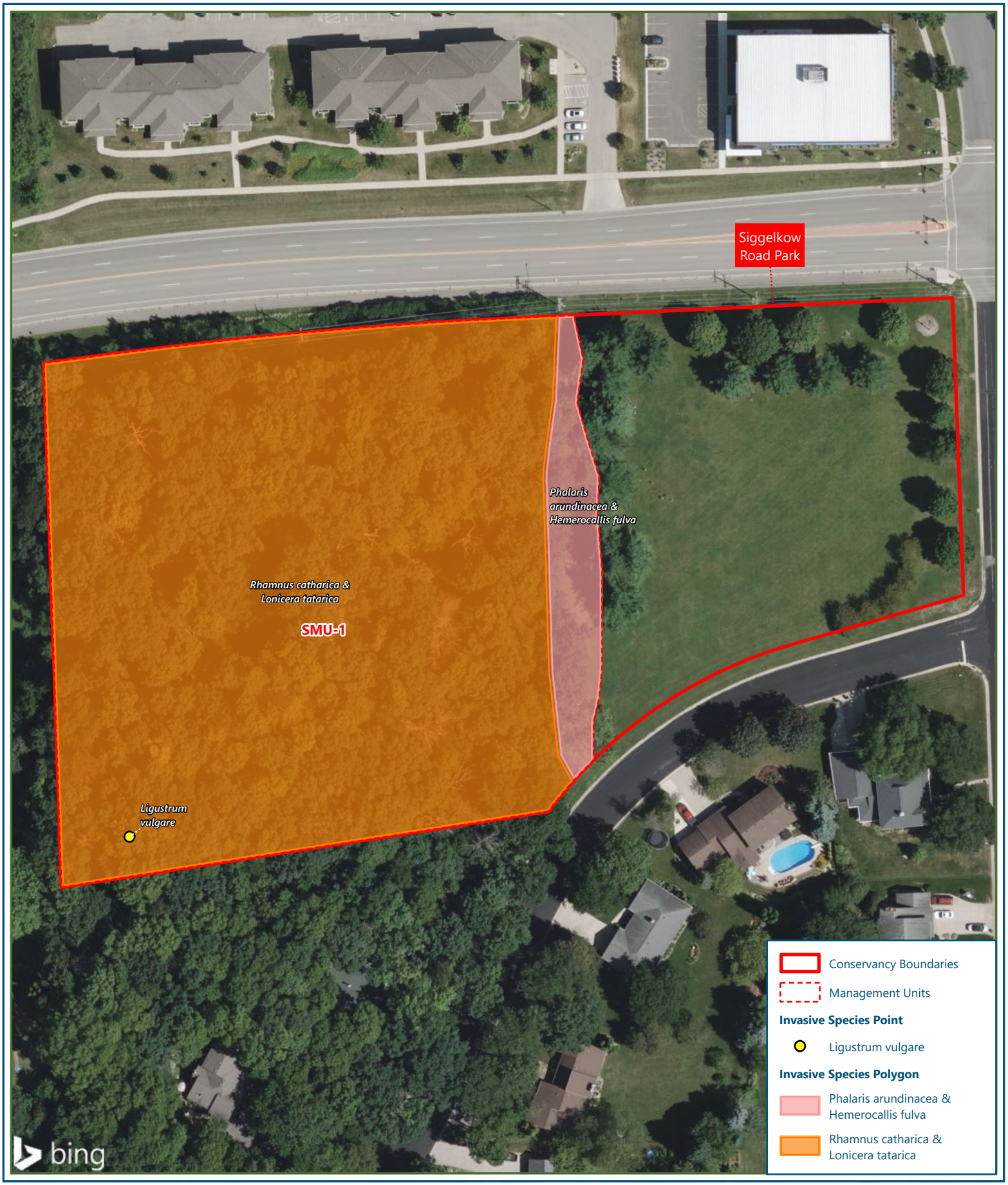

Figure 6e
Invasive Species

Siggelkow Road Park

N

1 in = 96 ft

0 50 100

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 6 - Invasive Species Map (Portrait)

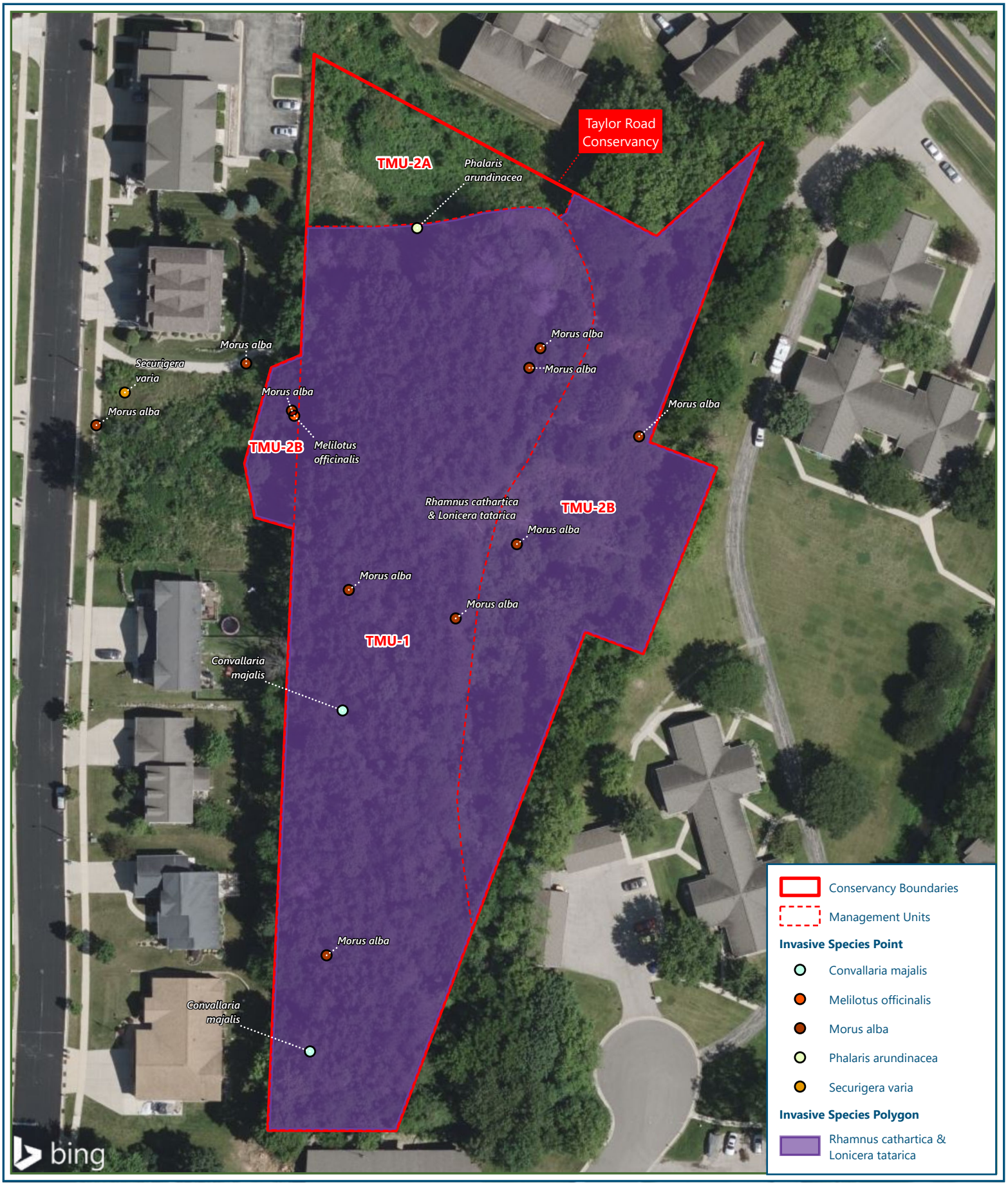

Figure 6f
Invasive Species

Taylor Road Conservancy

N

1 in = 83 ft

0 40 80

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 6 - Invasive Species Map (Portrait)

Figure 6g
Invasive Species

Urso Park

N

0 112.5 225
Feet
1 in = 217 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
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Date Exported: 1/25/2023
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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 6 - Invasive Species Map (Landscape)

Figure 6h
Invasive Species

Woodland Commons Park

N

1 in = 100 ft

0 50 100

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFarland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 6 - Invasive Species Map (Portrait)

Figure 6i
Invasive Species

Yahara River Conservancy

N

1 in = 50 ft

0 25 50

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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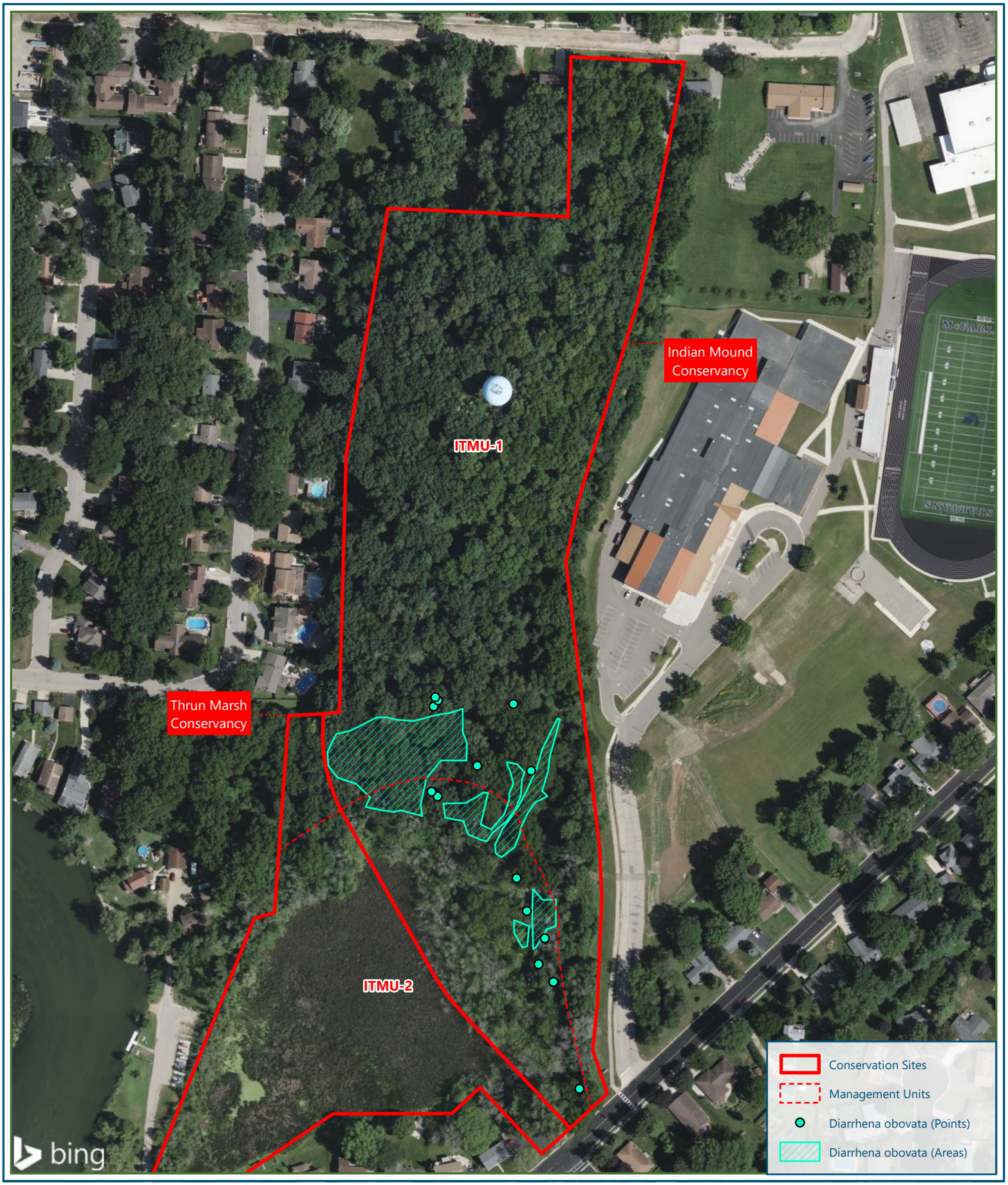

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMP.aprx | Layout: Figure 7 - Rare Plants (Portrait)

Figure 7
Rare Plants

Indian Mound Conservancy

N

1 in = 226 ft

0 115 230

Feet

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Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368

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Figure 8a
Proposed Plant Communities

Babcock Conservancy

N

1 in = 117 ft

0 60 120

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

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www.res.us

Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 8 - Proposed Plant Communities (Portrait)

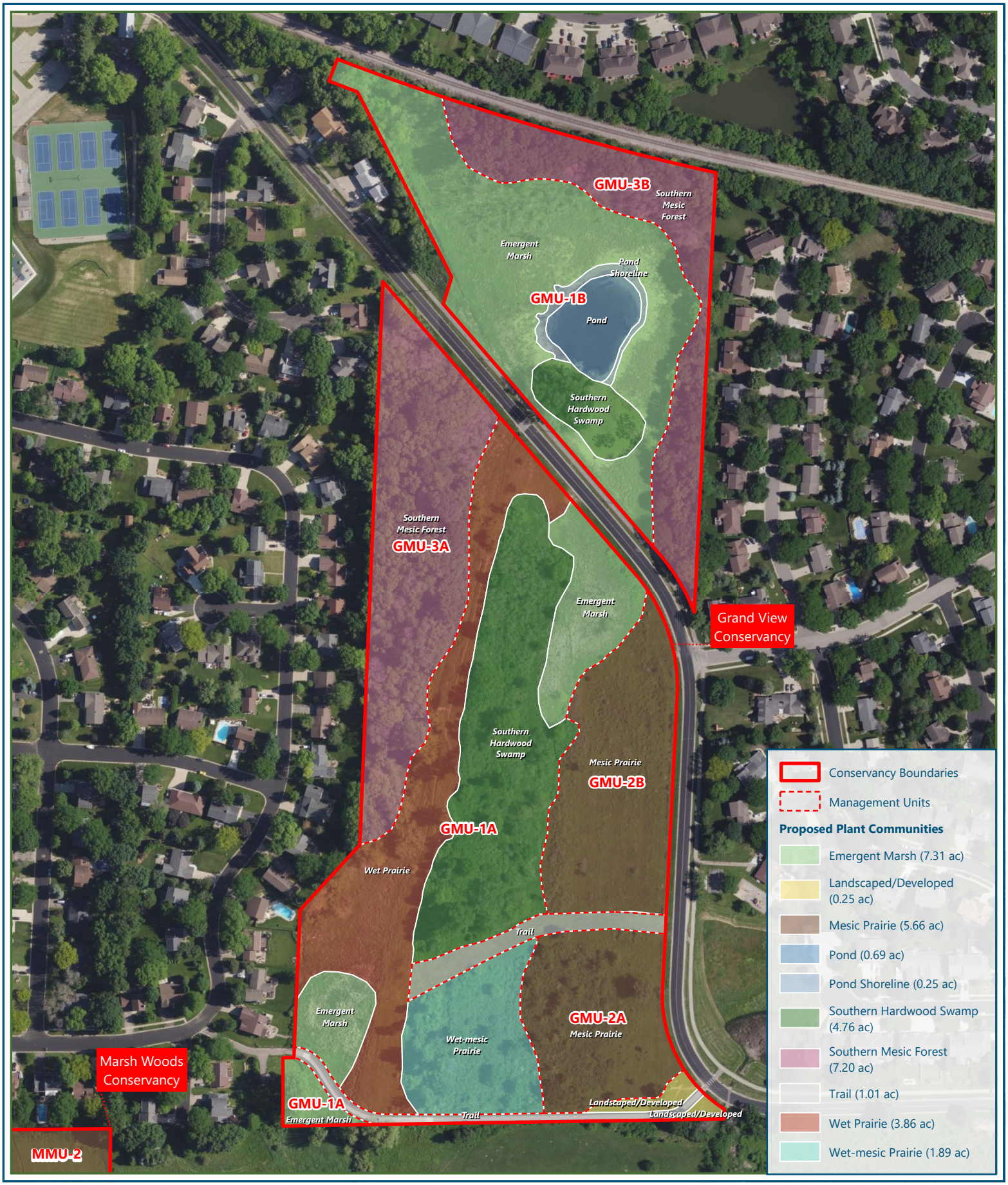

Figure 8b
Proposed Plant Communities

Grand View Conservancy

N

1 in = 263 ft

0 135 270

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFaland_NRMPaprx | Layout: Figure 8 - Proposed Plant Communities (Portrait)

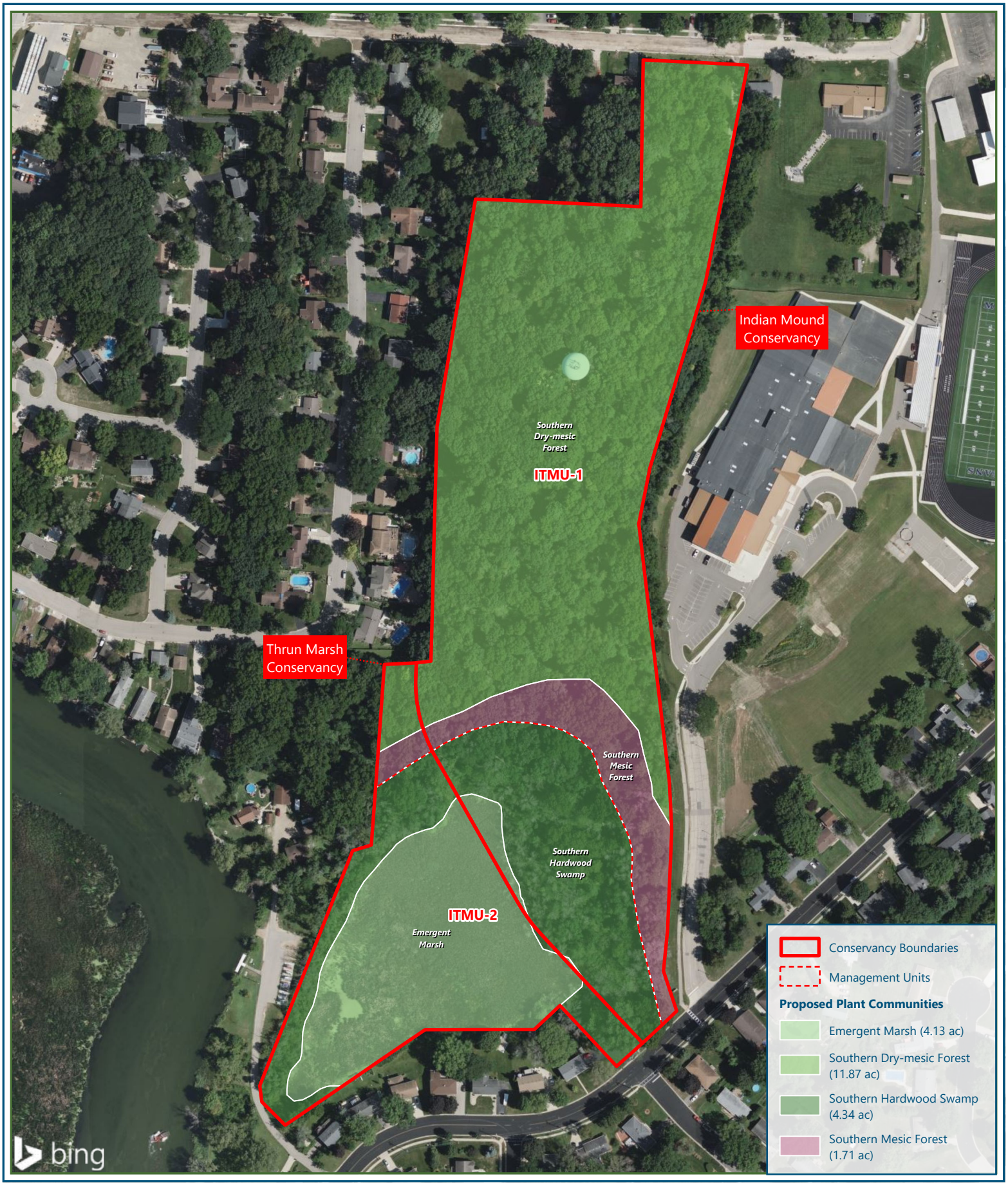

Figure 8c
Proposed Plant Communities

Indian Mound & Thrun Marsh Conservancy

N

1 in = 246 ft

0 125 250

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Figure 8d
Proposed Plant Communities

Marsh Woods Conservancy

N

0 120 240
Feet
1 in = 238 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
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Figure 8e
Proposed Plant Communities

Siggelkow Road Park

N

1 in = 96 ft

0 50 100

Feet

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Figure 8f
Proposed Plant Communities

Taylor Road Conservancy

N

1 in = 83 ft

0 40 80

Feet

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Figure 8g
Proposed Plant Communities

Urso Park

N

0 112.5 225
Feet
1 in = 217 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
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Figure 8h
Proposed Plant Communities

Woodland Commons Park

N

1 in = 100 ft

0 50 100

Feet

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

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Figure 8i
Proposed Plant Communities

Yahara River Conservancy

N

1 in = 50 ft

0 25 50

Feet

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Cartographer: tschwartz | POC: MP | Path: R:\Resgis\entgis\Projects\106368_Village_of_McFaland_NRMP\PRO\106368_Village_of_McFarland_NRMP.aprx | Layout: Figure 8 - Proposed Plant Communities (Portrait)

BMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer saccharum	Native		50	15		10	75
Arisaema triphyllum	Native					4	4
Celtis occidentalis	Native		25	1		1	27
Circaea canadensis	Native					2	2
Convallaria majalis	Introduced	Non-Restricted				3	3
Fraxinus pennsylvanica	Native			1		1	2
Maianthemum racemosum	Native					7	7
Podophyllum peltatum	Native					2	2
Prunus serotina	Native					1	1
Tilia americana	Native		25				25
Viburnum opulus	Introduced	Non-Restricted		1			1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	100	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	100	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	17	94
Non-native Cover Subtotal	1	6
Total Cover Subtotal	18	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	28	90
Non-native Cover Subtotal	3	10
Total Cover Subtotal	31	100
Invasive Cover Subtotal	0	0
Grand Total		
Native Cover Grand Total	**145**	**97**
Non-native Cover Grand Total	**4**	**3**
Total Cover Grand Total	**149**	**100**
Invasive Cover Grand Total	**0**	**0**

BMU-2 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		7	2			9
Acorus americanus	Native					<1	<1
Ageratina altissima	Native					1	1
Agrimonia gryposepala	Native					<1	<1
Ambrosia trifida	Native					1	1
Apocynum cannabinum	Native					1	1
Arctium lappa	Introduced					1	1
Asclepias incarnata	Native					<1	<1
Bidens frondosa	Native					<1	<1
Carex bebbii	Native					1	1
Carex debilis	Native					<1	<1
Carex lacustris	Native					1	1
Catalpa speciosa	Introduced		1				1
Celtis occidentalis	Native		3				3
Cicuta bulbifera	Native					<1	<1
Cicuta maculata	Native					<1	<1
Circaea canadensis	Native					1	1
Cirsium arvense	Introduced	Restricted				1	1
Cirsium discolor	Native					<1	<1
Cirsium vulgare	Introduced					<1	<1
Commelina communis	Introduced					<1	<1
Convallaria majalis	Introduced	Non-Restricted				1	1
Cornus amomum	Native			<1			<1
Daucus carota	Introduced	Non-Restricted				1	1
Eleocharis palustris	Native					<1	<1
Erechtites hieraciifolius	Native					1	1
Erigeron annuus	Native					<1	<1
Eupatorium perfoliatum	Native					2	2
Fraxinus americana	Native		1				1
Fraxinus pennsylvanica	Native			3			3
Galium trifidum	Native					<1	<1
Geum canadense	Native					1	1
Glyceria striata	Native					1	1
Hemerocallis fulva	Introduced	Caution				2	2
Impatiens capensis	Native					5	5
Juglans nigra	Native		1	<1			1
Leersia oryzoides	Native					2	2
Lonicera tatarica	Introduced	Restricted		5			5
Lycopus americanus	Native					1	1
Lysimachia ciliata	Native					<1	<1
Lythrum salicaria	Introduced	Restricted				1	1
Maianthemum racemosum	Native					<1	<1
Mentha canadensis	Native					1	1
Mimulus ringens	Native					2	2
Monarda fistulosa	Native					1	1
Parthenocissus quinquefolia	Native					2	2
Pastinaca sativa	Introduced	Restricted				<1	<1
Persicaria amphibia	Native					5	5
Persicaria hydropiper	Introduced					5	5
Persicaria lapathifolia	Native					1	1
Persicaria maculosa	Introduced					5	5
Phalaris arundinacea	Introduced	Non-restricted				5	5
Pilea pumila	Native					5	5
Populus deltoides	Native		5				5
Quercus bicolor	Native		1				1
Ranunculus recurvatus	Native					<1	<1
Ranunculus sceleratus	Native					<1	<1
Rhamnus cathartica	Introduced	Restricted		4			4
Ribes americanum	Native					4	4
Sagittaria latifolia	Native					1	1
Salix bebbiana	Native		1				1
Salix nigra	Native		1				1
Sanicula odorata	Native					1	1
Schoenoplectus tabernaemontani	Native					2	2
Scirpus atrovirens	Native					1	1
Solanum dulcamara	Introduced					3	3
Solidago canadensis	Native					<1	<1
Symphyotrichum lateriflorum	Native					<1	<1
Tilia americana	Native		3	<1			3
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Typha angustifolia	Introduced	Restricted				60	60
Ulmus americana	Native		1				1
Urtica dioica	Native					1	1
Verbena hastata	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					<1	<1
Vitis aestivalis	Native				1		1
Vitis riparia	Native				3		3

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	24	96
Non-native Cover Subtotal	1	4
Total Cover Subtotal	25	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	31
Non-native Cover Subtotal	11	69
Total Cover Subtotal	16	100
Invasive Cover Subtotal	9	56
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	47	35
Non-native Cover Subtotal	86	65
Total Cover Subtotal	133	100
Invasive Cover Subtotal	68	51
Grand Total		
Native Cover Grand Total	**80**	**45**
Non-native Cover Grand Total	**98**	**55**
Total Cover Grand Total	**178**	**100**
Invasive Cover Grand Total	**77**	**43**

GMU-1A (Emergent Marsh - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Carex stricta	Native					1	1
Eupatorium perfoliatum	Native					1	1
Eutrochium maculatum	Native					3	3
Filipendula rubra	Introduced					1	1
Hemerocallis fulva	Introduced	Caution				1	1
Impatiens capensis	Native					1	1
Iris virginica	Native					1	1
Leersia oryzoides	Native					2	2
Lonicera tatarica	Introduced	Restricted		2			2
Onoclea sensibilis	Native					1	1
Persicaria amphibia	Native					1	1
Persicaria sagittata	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				35	35
Pilea pumila	Native					1	1
Poa palustris	Native					1	1
Rumex verticillatus	Native					1	1
Scirpus atrovirens	Native					1	1
Solanum dulcamara	Introduced					1	1
Symphyotrichum firmum	Native					5	5
Typha angustifolia	Introduced	Restricted				40	40
Typha latifolia	Native					20	20
Urtica dioica	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	2	100
Total Cover Subtotal	2	100
Invasive Cover Subtotal	2	100
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	42	35
Non-native Cover Subtotal	78	65
Total Cover Subtotal	120	100
Invasive Cover Subtotal	75	63
Grand Total		
Native Cover Grand Total	**42**	**34**
Non-native Cover Grand Total	**80**	**66**
Total Cover Grand Total	**122**	**100**
Invasive Cover Grand Total	**77**	**63**

GMU-1A (Southern Hardwood Swamp - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer saccharinum	Native		30				30
Achillea millefolium	Native					2	2
Agrostis gigantea	Introduced					5	5
Andropogon gerardii	Native					1	1
Apocynum cannabinum	Native					1	1
Asclepias syriaca	Native					1	1
Carex bebbii	Native					1	1
Carex pellita	Native					2	2
Carex vulpinoidea	Native					3	3
Cirsium arvense	Introduced	Restricted				2	2
Cornus foemina	Native			2			2
Cornus sericea	Native			1			1
Equisetum arvense	Native					2	2
Erigeron annuus	Native					1	1
Eutrochium maculatum	Native					1	1
Galium aparine	Native					1	1
Helianthus grosseserratus	Native					3	3
Juncus dudleyi	Native					3	3
Juniperus virginiana	Native		1				1
Lilium michiganense	Native					1	1
Lonicera tatarica	Introduced	Restricted		10			10
Lycopus americanus	Native					1	1
Malus pumila	Introduced		1				1
Monarda fistulosa	Native					2	2
Phalaris arundinacea	Introduced	Non-restricted				45	45
Populus deltoides	Native		15				15
Pycnanthemum virginianum	Native					5	5
Rhamnus cathartica	Introduced	Restricted				3	3
Ribes americanum	Native			1			1
Rosa multiflora	Introduced	Restricted		3			3
Salix discolor	Native		1	5			6
Salix interior	Native			2			2
Salix nigra	Native		10				10
Scirpus atrovirens	Native					2	2
Solidago canadensis	Native					4	4
Solidago gigantea	Native					4	4
Stachys palustris	Native					1	1
Symphyotrichum firmum	Native					2	2
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	57	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	58	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	11	46
Non-native Cover Subtotal	13	54
Total Cover Subtotal	24	100
Invasive Cover Subtotal	13	54
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	44	44
Non-native Cover Subtotal	55	56
Total Cover Subtotal	99	100
Invasive Cover Subtotal	50	51
Grand Total		
Native Cover Grand Total	**117**	**63**
Non-native Cover Grand Total	**69**	**37**
Total Cover Grand Total	**186**	**100**
Invasive Cover Grand Total	**63**	**34**

GMU-1A (Wet Meadow - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					1	1
Agrostis gigantea	Introduced					1	1
Agrimonia gryposepala	Native					1	1
Ambrosia artemisiifolia	Native					1	1
Andropogon gerardii	Native					1	1
Asclepias incarnata	Native					1	1
Asclepias syriaca	Native					1	1
Bromus inermis	Introduced	Non-Restricted				1	1
Calamagrostis canadensis	Native					1	1
Carex cristatella	Native					1	1
Carex molesta	Native					1	1
Carex pellita	Native					5	5
Carex rosea	Native					1	1
Carex stricta	Native					20	20
Carex vulpinoidea	Native					1	1
Circaea canadensis	Native					1	1
Cirsium vulgare	Introduced					1	1
Conyza canadensis	Native					1	1
Cornus foemina	Native			5			5
Cornus sericea	Native			2			2
Daucus carota	Introduced	Non-Restricted				1	1
Elaeagnus umbellata	Introduced	Restricted				1	1
Equisetum arvense	Native					1	1
Erechtites hieraciifolius	Native					1	1
Eupatorium perfoliatum	Native					1	1
Eutrochium maculatum	Native					1	1
Fraxinus pennsylvanica	Native					1	1
Fragaria virginiana	Native					1	1
Gentiana alba	Native					1	1
Geum canadense	Native					1	1
Helianthus grosseserratus	Native					6	6
Juncus dudleyi	Native					1	1
Lilium michiganense	Native					1	1
Lonicera tatarica	Introduced	Restricted				20	20
Lycopus americanus	Native					1	1
Lysimachia nummularia	Introduced	Restricted				1	1
Medicago lupulina	Introduced					1	1
Monarda fistulosa	Native					1	1
Muhlenbergia mexicana	Native					1	1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native					1	1
Pastinaca sativa	Introduced	Restricted				1	1
Phalaris arundinacea	Introduced	Non-restricted				30	30
Poa palustris	Native					1	1
Poa pratensis	Introduced					1	1
Podophyllum peltatum	Native					1	1
Populus deltoides	Native					1	1
Prunella vulgaris	Native					1	1
Pycnanthemum virginianum	Native					2	2
Rhamnus cathartica	Introduced	Restricted		5			5
Ribes americanum	Native			1			1
Rosa multiflora	Introduced	Restricted		1			1
Rubus allegheniensis	Native			1			1
Scirpus atrovirens	Native					1	1
Solidago canadensis	Native					2	2
Solidago gigantea	Native					4	4
Spartina pectinata	Native					2	2
Symphyotrichum firmum	Native					1	1
Symphyotrichum lanceolatum	Native					1	1
Symphyotrichum lateriflorum	Native					1	1
Toxicodendron radicans	Native					1	1
Verbena hastata	Native					5	5
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	9	60
Non-native Cover Subtotal	6	40
Total Cover Subtotal	15	100
Invasive Cover Subtotal	6	40
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	83	58
Non-native Cover Subtotal	59	42
Total Cover Subtotal	142	100
Invasive Cover Subtotal	53	37
Grand Total		
Native Cover Grand Total	**94**	**59**
Non-native Cover Grand Total	**65**	**41**
Total Cover Grand Total	**159**	**100**
Invasive Cover Grand Total	**59**	**37**

GMU-1B (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer saccharinum	Native		1				1
Alisma subcordatum	Native					3	3
Asclepias incarnata	Native					1	1
Bidens cernua	Native					1	1
Calystegia sepium	Native				1		1
Carex bebbii	Native					2	2
Carex stricta	Native					4	4
Cirsium arvense	Introduced	Restricted				3	3
Echinochloa crus-galli	Introduced					1	1
Echinocystis lobata	Native				1		1
Eleocharis obtusa	Native					2	2
Erechtites hieraciifolius	Native					1	1
Erigeron annuus	Native					1	1
Fraxinus pennsylvanica	Native			1			1
Impatiens capensis	Native					3	3
Iris virginica	Native					1	1
Juglans nigra	Native		1				1
Leersia oryzoides	Native					2	2
Persicaria amphibia	Native					4	4
Persicaria hydropiper	Introduced					2	2
Phalaris arundinacea	Introduced	Non-restricted				40	40
Pilea pumila	Native					2	2
Populus deltoides	Native		2				2
Robinia pseudoacacia	Introduced	Restricted	1				1
Rubus occidentalis	Native			1			1
Salix discolor	Native			1			1
Salix nigra	Native		2				2
Sambucus canadensis	Native			3			3
Schoenoplectus tabernaemontai	Native					1	1
Scirpus atrovirens	Native					1	1
Solidago canadensis	Native					4	4
Stachys palustris	Native					1	1
Typha angustifolia	Introduced	Restricted				10	10
Typha latifolia	Native					5	5
Urtica dioica	Native					2	2
Verbena hastata	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	1	14
Sapling/Shrub		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	42	43
Non-native Cover Subtotal	56	57
Total Cover Subtotal	98	100
Invasive Cover Subtotal	53	54
Grand Total		
Native Cover Grand Total	**58**	**50**
Non-native Cover Grand Total	**57**	**50**
Total Cover Grand Total	**115**	**100**
Invasive Cover Grand Total	**54**	**47**

GMU-2A (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Abutilon theophrasti	Introduced					1	1
Ageratina altissima	Native					1	1
Agrostis gigantea	Introduced					1	1
Agrimonia gryposepala	Native					1	1
Ambrosia artemisiifolia	Native					1	1
Asclepias syriaca	Native					1	1
Barbarea vulgaris	Introduced					1	1
Carex blanda	Native					1	1
Carex molesta	Native					1	1
Carex tenera	Native					1	1
Circaea canadensis	Native					1	1
Cornus foemina	Native			10			10
Dactylis glomerata	Introduced					1	1
Daucus carota	Introduced	Non-Restricted				1	1
Equisetum arvense	Native					1	1
Erigeron strigosus	Native					1	1
Festuca rubra	Introduced					1	1
Fraxinus pennsylvanica	Native					1	1
Fragaria virginiana	Native					1	1
Galium aparine	Native					1	1
Geum canadense	Native					1	1
Hackelia virginiana	Native					1	1
Hypericum perforatum	Introduced	Non-Restricted				1	1
Juncus dudleyi	Native					1	1
Lonicera tatarica	Introduced	Restricted		20			20
Medicago lupulina	Introduced					1	1
Melilotus albus	Introduced	Non-Restricted				1	1
Monarda fistulosa	Native					2	2
Onoclea sensibilis	Native					1	1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native					1	1
Pastinaca sativa	Introduced	Restricted				1	1
Persicaria maculosa	Introduced					1	1
Persicaria virginiana	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				2	2
Plantago major	Introduced					1	1
Poa pratensis	Introduced					1	1
Prunus serotina	Native					1	1
Prunella vulgaris	Native					1	1
Quercus ellipsoidalis	Native		1				1
Quercus macrocarpa	Native					2	2
Ranunculus abortivus	Native					1	1
Rhamnus cathartica	Introduced	Restricted		5			5
Rosa multiflora	Introduced	Restricted		3			3
Rubus allegheniensis	Native					2	2
Rubus occidentalis	Native					1	1
Rumex crispus	Introduced					1	1
Silene latifolia	Introduced					1	1
Solanum dulcamara	Introduced					1	1
Solidago canadensis	Native					20	20
Solidago gigantea	Native					2	2
Symphyotrichum lateriflorum	Native					1	1
Symphyotrichum novae-angl	Native					1	1
Symphyotrichum pilosum	Native					1	1
Taraxacum officinale	Introduced					1	1
Verbascum thapsus	Introduced					1	1
Verbena urticifolia	Native					1	1
Viburnum dentatum	Introduced					1	1
Viburnum opulus	Introduced	Non-Restricted				2	2
Vitis riparia	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	1	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	10	26
Non-native Cover Subtotal	28	74
Total Cover Subtotal	38	100
Invasive Cover Subtotal	28	74
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	57	71
Non-native Cover Subtotal	23	29
Total Cover Subtotal	80	100
Invasive Cover Subtotal	3	4
Grand Total		
Native Cover Grand Total	**68**	**57**
Non-native Cover Grand Total	**51**	**43**
Total Cover Grand Total	**119**	**100**
Invasive Cover Grand Total	**31**	**26**

GMU-2B (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					15	15
Agrostis gigantea	Introduced					5	5
Agrimonia gryposepala	Native					1	1
Apocynum cannabinum	Native					1	1
Carex molesta	Native					5	5
Carex vulpinoidea	Native					4	4
Cornus foemina	Native			35			35
Fraxinus pennsylvanica	Native		<1				<1
Fragaria virginiana	Native					2	2
Geum aleppicum	Native					3	3
Helianthus grosseserratus	Native					10	10
Juncus dudleyi	Native					5	5
Lonicera tatarica	Introduced	Restricted		20			20
Lycopus americanus	Native					2	2
Monarda fistulosa	Native					4	4
Parthenocissus quinquefolia	Native					2	2
Pastinaca sativa	Introduced	Restricted				1	1
Phalaris arundinacea	Introduced	Non-restricted				1	1
Poa pratensis	Introduced					10	10
Prunella vulgaris	Native					2	2
Pycnanthemum virginianum	Native					15	15
Quercus macrocarpa	Native		<1				<1
Rhus glabra	Native			3			3
Rubus allegheniensis	Native			5			5
Salix humilis	Native			10			10
Scirpus atrovirens	Native					2	2
Solidago canadensis	Native					25	25
Solidago gigantea	Native					20	20
Symphyotrichum firmum	Native					2	2
Symphyotrichum novae-angl	Native					5	5
Viburnum dentatum	Introduced			2			2
Vitis aestivalis	Native				2		2
Vitis riparia	Native				6		6

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	<1	<1
Non-native Cover Subtotal	0	0
Total Cover Subtotal	<1	<1
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	53	71
Non-native Cover Subtotal	22	29
Total Cover Subtotal	75	100
Invasive Cover Subtotal	20	27
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	125	88
Non-native Cover Subtotal	17	12
Total Cover Subtotal	142	100
Invasive Cover Subtotal	2	1
Grand Total		
Native Cover Grand Total	**186**	**83**
Non-native Cover Grand Total	**39**	**17**
Total Cover Grand Total	**225**	**100**
Invasive Cover Grand Total	**22**	**10**

GMU-3A (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		70	5			75
Ageratina altissima	Native					1	1
Alliaria petiolata	Introduced	Restricted				25	25
Cirsium arvense	Introduced	Restricted				1	1
Circaea canadensis	Native					2	2
Cryptotaenia canadensis	Native					1	1
Echinocystis lobata	Native				1		1
Galium aparine	Native					1	1
Geum canadense	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Hackelia virginiana	Native					1	1
Hemerocallis fulva	Introduced	Caution				2	2
Juglans nigra	Native		5				5
Leonurus cardiaca	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		40			40
Matteuccia struthiopteris	Native					1	1
Morus alba	Introduced	Restricted	1				1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native					10	10
Penthorum sedoides	Native					1	1
Persicaria hydropiper	Introduced					1	1
Persicaria sagittata	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				2	2
Physalis alkekengi	Introduced					1	1
Phytolacca americana	Native					1	1
Pilea pumila	Native					2	2
Podophyllum peltatum	Native					1	1
Rhamnus cathartica	Introduced	Restricted		5			5
Sambucus canadensis	Native			2			2
Sanicula odorata	Native					1	1
Ulmus americana	Native		1				1
Urtica dioica	Native					1	1
Viola sororia	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	76	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	77	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	7	13
Non-native Cover Subtotal	45	87
Total Cover Subtotal	52	100
Invasive Cover Subtotal	45	87
Vine		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	28	45
Non-native Cover Subtotal	34	55
Total Cover Subtotal	62	100
Invasive Cover Subtotal	28	45
Grand Total		
Native Cover Grand Total	**112**	**58**
Non-native Cover Grand Total	**80**	**42**
Total Cover Grand Total	**192**	**100**
Invasive Cover Grand Total	**74**	**39**

GMU-3B (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		35				35
Ageratina altissima	Native					25	25
Agrimonia gryposepala	Native					1	1
Alliaria petiolata	Introduced	Restricted				2	2
Arctium minus	Introduced					1	1
Carex blanda	Native					2	2
Carya ovata	Native		30	2			32
Carex pensylvanica	Native					2	2
Celtis occidentalis	Native					1	1
Cirsium arvense	Introduced	Restricted				1	1
Circaea canadensis	Native					5	5
Duchesnea indica	Introduced					2	2
Fraxinus pennsylvanica	Native					1	1
Galium aparine	Native					2	2
Geum canadense	Native					4	4
Hackelia virginiana	Native					10	10
Impatiens capensis	Native					2	2
Juglans nigra	Native		4				4
Leonurus cardiaca	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		5			5
Matteuccia struthiopteris	Native					1	1
Oxalis stricta	Native					2	2
Parthenocissus quinquefolia	Native				5	20	25
Phalaris arundinacea	Introduced	Non-restricted				5	5
Pilea pumila	Native					3	3
Populus deltoides	Native		5			1	6
Prunus serotina	Native		25				25
Prunus virginiana	Native			<1			<1
Quercus alba	Native		1				1
Quercus macrocarpa	Native		2				2
Quercus rubra	Native		10				10
Rhamnus cathartica	Introduced	Restricted		4		3	7
Robinia pseudoacacia	Introduced	Restricted	5				5
Rubus occidentalis	Native			2			2
Sambucus canadensis	Native			5			5
Vitis aestivalis	Native				1		1
Vitis riparia	Native				3		3

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	112	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	117	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	9	50
Non-native Cover Subtotal	9	50
Total Cover Subtotal	18	100
Invasive Cover Subtotal	9	50
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	82	85
Non-native Cover Subtotal	15	15
Total Cover Subtotal	97	100
Invasive Cover Subtotal	11	11
Grand Total		
Native Cover Grand Total	**212**	**88**
Non-native Cover Grand Total	**29**	**12**
Total Cover Grand Total	**241**	**100**
Invasive Cover Grand Total	**25**	**10**

ITMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native			5			5
Acer platanoides	Introduced	Caution	<1	1		<1	1
Achillea millefolium	Native					<1	<1
Ageratina altissima	Native					1	1
Agrostis gigantea	Introduced					2	2
Agrimonia gryposepala	Native					1	1
Alliaria petiolata	Introduced	Restricted				1	1
Anemone virginiana	Native					1	1
Arctium minus	Introduced					<1	<1
Arisaema triphyllum	Native					2	2
Asarum canadense	Native					1	1
Betula papyrifera	Native		<1				<1
Blephilia hirsuta	Native					2	2
Bromus latiglumis	Native					1	1
Campanulastrum americanum	Native					<1	<1
Carex blanda	Native					1	1
Carex bromoides	Native					<1	<1
Carex cephalophora	Native					2	2
Carex debilis	Native					1	1
Carex grisea	Native					<1	<1
Carex rosea	Native					1	1
Carex sprengelii	Native					1	1
Carya ovata	Native		7	1			8
Catalpa speciosa	Introduced			<1			<1
Celastrus orbiculatus	Introduced	Restricted			10		10
Celtis occidentalis	Native		15	5		3	23
Circaea canadensis	Native					2	2
Cercis canadensis	Introduced			<1			<1
Cirsium arvense	Introduced	Restricted				<1	<1
Convallaria majalis	Introduced	Non-Restricted				3	3
Cornus foemina	Native			5			5
Dactylis glomerata	Introduced					<1	<1
Dryopteris carthusiana	Native					1	1
Echinocystis lobata	Native				1		1
Elymus canadensis	Native					<1	<1
Elymus hystrix	Native					2	2
Elymus villosus	Native					2	2
Elymus virginicus	Native					<1	<1
Erigeron annuus	Native					1	1
Eutrochium purpureum	Native					3	3
Fraxinus pennsylvanica	Native			5			5
Galium aparine	Native					1	1
Geum canadense	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Hackelia virginiana	Native					2	2
Hemerocallis fulva	Introduced	Caution				1	1
Juglans nigra	Native		20				20
Juniperus virginiana	Native		<1	<1			<1
Lamium maculatum	Introduced					1	1
Leersia virginica	Native					1	1
Leonurus cardiaca	Introduced					<1	<1
Ligustrum vulgare	Introduced	Caution		<1			<1
Lolium arundinaceum	Introduced					5	5
Lonicera tatarica	Introduced	Restricted		5			5
Maianthemum racemosum	Native					8	8
Maianthemum stellatum	Native					<1	<1
Matteuccia struthiopteris	Native					<1	<1
Monarda fistulosa	Native					<1	<1
Morus alba	Introduced	Restricted	1				1
Nepeta cataria	Introduced					1	1
Osmorhiza claytonii	Native					1	1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native				`	15	15
Persicaria maculosa	Introduced					<1	<1
Persicaria virginiana	Native					2	2
Phalaris arundinacea	Introduced	Non-restricted				1	1
Phryma leptostachya	Native					<1	<1
Phytolacca americana	Native					<1	<1
Picea abies	Introduced		<1				<1
Pilea pumila	Native					<1	<1
Pinus resinosa	Native		1				1
Poa pratensis	Introduced					1	1
Podophyllum peltatum	Native					1	1
Polygonatum biflorum	Native					<1	<1
Populus tremuloides	Native		<1				<1
Prunus serotina	Native		5	1			6
Quercus alba	Native		15				15
Quercus ellipsoidalis	Native		<1				<1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	103	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	104	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	34	76
Non-native Cover Subtotal	11	24
Total Cover Subtotal	45	100
Invasive Cover Subtotal	8	18
Vine		
Native Cover Subtotal	8	44
Non-native Cover Subtotal	10	56
Total Cover Subtotal	18	100
Invasive Cover Subtotal	10	56
Herb		
Native Cover Subtotal	70	80
Non-native Cover Subtotal	17	20
Total Cover Subtotal	87	100
Invasive Cover Subtotal	3	3
Grand Total		
Native Cover Grand Total	**215**	**85**
Non-native Cover Grand Total	**39**	**15**
Total Cover Grand Total	**254**	**100**
Invasive Cover Grand Total	**22**	**9**

Quercus macrocarpa	Native		5				5
Quercus rubra	Native		20	1			21
Rhamnus cathartica	Introduced	Restricted		3		1	4
Rhus glabra	Native			<1			<1
Ribes americanum	Native			1			1
Rosa multiflora	Introduced	Restricted		<1			<1
Rubus allegheniensis	Native			1			1
Rubus occidentalis	Native			3			3
Sambucus canadensis	Native			2			2
Sanguinaria canadensis	Native					<1	<1
Sanicula odorata	Native					<1	<1
Scrophularia marilandica	Native					1	1
Smilax herbacea	Native				1		1
Solanum dulcamara	Introduced					<1	<1
Solidago canadensis	Native					<1	<1
Solidago ulmifolia	Native					1	1
Symphyotrichum lateriflorum	Native					1	1
Taraxacum officinale	Introduced					<1	<1
Tilia americana	Native		15	1			16
Toxicodendron radicans	Native					1	1
Ulmus americana	Native			1			1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					4	4
Vitis aestivalis	Native				1		1
Vitis riparia	Native				5		5
Zanthoxylum americanum	Native			2			2

ITMU-2 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1				1
Acer platanoides	Introduced	Caution		2			2
Acer saccharinum	Native		5				5
Ageratina altissima	Native					1	1
Agrostis gigantea	Introduced					1	1
Allium canadense	Native					1	1
Ambrosia trifida	Native					1	1
Anemone canadensis	Native					1	1
Arisaema triphyllum	Native					1	1
Asclepias incarnata	Native					<1	<1
Bidens cernua	Native					<1	<1
Blephilia hirsuta	Native					1	1
Bolboschoenus fluviatilis	Native					1	1
Calamagrostis canadensis	Native					1	1
Carex davisii	Native					1	1
Carex lacustris	Native					1	1
Carex pellita	Native					1	1
Carex stricta	Native					2	2
Carex vulpinoidea	Native					1	1
Celtis occidentalis	Native			2		1	3
Cicuta bulbifera	Native					<1	<1
Circaea canadensis	Native					2	2
Cirsium arvense	Introduced	Restricted				<1	<1
Cirsium vulgare	Introduced					1	1
Cornus sericea	Native			10			10
Crataegus mollis	Native			1			1
Cuscuta gronovii	Native					1	1
Daucus carota	Introduced	Non-Restricted				1	1
Diarrhena obovata	Native					1	1
Echinocystis lobata	Native					1	1
Echium vulgare	Introduced					<1	<1
Elymus canadensis	Native					1	1
Elymus hystrix	Native					1	1
Elymus virginicus	Native					1	1
Epilobium coloratum	Native					<1	<1
Erigeron strigosus	Native					2	2
Fraxinus pennsylvanica	Native		10	5			15
Galium aparine	Native					1	1
Geum canadense	Native					2	2
Glechoma hederacea	Introduced	Caution				2	2
Gleditsia triacanthos	Native		1				1
Hackelia virginiana	Native					1	1
Hesperis matronalis	Introduced	Restricted				1	1
Impatiens capensis	Native					2	2
Juglans nigra	Native		5				5
Juncus dudleyi	Native					1	1
Lolium arundinaceum	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		10			10
Lysimachia ciliata	Native					1	1
Lythrum salicaria	Introduced	Restricted				1	1
Maianthemum racemosum	Native					1	1
Melilotus albus	Introduced	Non-Restricted				1	1
Mimulus ringens	Native					<1	<1
Monarda fistulosa	Native					1	1
Morus alba	Introduced	Restricted		1		1	2
Oenothera biennis	Native					<1	<1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native				2		2
Penthorum sedoides	Native					<1	<1
Persicaria amphibia	Native					<1	<1
Phalaris arundinacea	Introduced	Non-restricted				5	5
Pilea pumila	Native					1	1
Poa palustris	Native					1	1
Poa pratensis	Introduced					1	1
Populus deltoides	Native		5				5
Prunus americana	Native			2			2
Prunus virginiana	Native			1			1
Quercus bicolor	Native	1	<1				<1
Ranunculus acris	Introduced					<1	<1
Ranunculus hispidus	Native					1	1
Rhamnus cathartica	Introduced	Restricted		5			5
Ribes americanum	Native			3			3
Robinia pseudoacacia	Introduced	Restricted		1			1
Rosa multiflora	Introduced	Restricted		1			1
Rubus occidentalis	Native			2			2
Rumex britannica	Native					<1	<1
Rumex crispus	Introduced					1	1
Sagittaria latifolia	Native					2	2
Salix alba f. cv. 'Vitellina'	Excluded		10				10
Salix interior	Native			1			1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	32	76
Non-native Cover Subtotal	10	24
Total Cover Subtotal	42	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	31	55
Non-native Cover Subtotal	25	45
Total Cover Subtotal	56	100
Invasive Cover Subtotal	18	32
Vine		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	52	54
Non-native Cover Subtotal	45	46
Total Cover Subtotal	97	100
Invasive Cover Subtotal	34	35
Grand Total		
Native Cover Grand Total	**121**	**60**
Non-native Cover Grand Total	**80**	**40**
Total Cover Grand Total	**201**	**100**
Invasive Cover Grand Total	**52**	**26**

Salix nigra	Native			1			1
Sambucus canadensis	Native			2			2
Sanicula odorata	Native					1	1
Scirpus atrovirens	Native					1	1
Solanum dulcamara	Introduced					1	1
Solidago gigantea	Native					1	1
Sonchus asper	Introduced					1	1
Symphyotrichum firmum	Native					1	1
Symphyotrichum lanceolatum	Native					1	1
Symphyotrichum lateriflorum	Native					2	2
Thuja occidentalis	Native		5				5
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Typha angustifolia	Introduced	Restricted				25	25
Verbena hastata	Native					1	1
Verbena urticifolia	Native					1	1
Vernonia fasciculata	Native					1	1
Viburnum lentago	Native			1			1
Viburnum opulus	Introduced	Non-Restricted		5			5
Viola sororia	Native					1	1
Vitis aestivalis	Native				2		2
Vitis riparia	Native				2		2

MMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native			1			1
Achillea millefolium	Native					1	1
Ageratina altissima	Native					1	1
Agrimonia gryposepala	Native					2	2
Anemone virginiana	Native					1	1
Arctium minus	Introduced					1	1
Asclepias syriaca	Native					1	1
Athyrium filix-femina	Native					1	1
Betula papyrifera	Native		1				1
Calamagrostis canadensis	Native					1	1
Carex cephalophora	Native					1	1
Carex rosea	Native					2	2
Carya ovata	Native		50	25			75
Celtis occidentalis	Native		1			1	2
Cirsium arvense	Introduced	Restricted				1	1
Circaea canadensis	Native					3	3
Cornus foemina	Native			5			5
Dactylis glomerata	Introduced					1	1
Elaeagnus umbellata	Introduced	Restricted		1			1
Elymus virginicus	Native					1	1
Erigeron strigosus	Native					1	1
Eutrochium maculatum	Native					1	1
Fraxinus pennsylvanica	Native					1	1
Galium aparine	Native					1	1
Geranium maculatum	Native					1	1
Geum canadense	Native					2	2
Hackelia virginiana	Native					1	1
Juncus dudleyi	Native					1	1
Leersia virginica	Native					1	1
Lonicera tatarica	Introduced	Restricted		3			3
Maianthemum racemosum	Native					1	1
Monarda fistulosa	Native					1	1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native				10		10
Persicaria virginiana	Native					2	2
Phalaris arundinacea	Introduced	Non-restricted				1	1
Phytolacca americana	Native					1	1
Pilea pumila	Native					1	1
Podophyllum peltatum	Native					2	2
Populus tremuloides	Native		1				1
Potentilla simplex	Native					1	1
Prunus serotina	Native		2	2			4
Prunus virginiana	Native			3			3
Quercus alba	Native		15				15
Quercus macrocarpa	Native		20	1			21
Quercus rubra	Native			1			1
Rhamnus cathartica	Introduced	Restricted		1		4	5
Ribes missouriense	Native			1			1
Robinia pseudoacacia	Introduced	Restricted				1	1
Rosa multiflora	Introduced	Restricted		1			1
Rubus allegheniensis	Native			5			5
Rubus occidentalis	Native			2			2
Solidago canadensis	Native					1	1
Solidago gigantea	Native					1	1
Symphyotrichum firmum	Native					1	1
Symphyotrichum lateriflorum	Native					2	2
Toxicodendron radicans	Native				3		3
Triosteum aurantiacum	Native					1	1
Trifolium repens	Introduced					1	1
Urtica dioica	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	90	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	90	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	85
Non-native Cover Subtotal	8	15
Total Cover Subtotal	54	100
Invasive Cover Subtotal	6	11
Vine		
Native Cover Subtotal	15	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	15	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	44	81
Non-native Cover Subtotal	10	19
Total Cover Subtotal	54	100
Invasive Cover Subtotal	6	11
Grand Total		
Native Cover Grand Total	**195**	**92**
Non-native Cover Grand Total	**18**	**8**
Total Cover Grand Total	**213**	**100**
Invasive Cover Grand Total	**12**	**6**

MMU-2 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer ginnala	Introduced	Restricted				1	1
Achillea millefolium	Native					2	2
Agrostis gigantea	Introduced					5	5
Agrimonia gryposepala	Native					1	1
Ambrosia trifida	Native					1	1
Anaphalis margaritacea	Native					1	1
Andropogon gerardii	Native					1	1
Asclepias syriaca	Native					1	1
Betula papyrifera	Native			1			1
Bromus inermis	Introduced	Non-Restricted				20	20
Campanulastrum americanum	Native					1	1
Carex pellita	Native					1	1
Carex scoparia	Native					1	1
Carya ovata	Native					1	1
Cirsium discolor	Native					1	1
Cornus amomum	Native			5			5
Cornus foemina	Native			10			10
Dalea candida	Native					1	1
Dalea purpurea	Native					1	1
Daucus carota	Introduced	Non-Restricted				20	20
Echinacea purpurea	Introduced					1	1
Elaeagnus umbellata	Introduced	Restricted		1			1
Erigeron strigosus	Native					1	1
Eryngium yuccifolium	Native					1	1
Helenium autumnale	Native					1	1
Juglans nigra	Native					1	1
Juncus dudleyi	Native					1	1
Lactuca canadensis	Native					1	1
Leucanthemum vulgare	Introduced					1	1
Liatris pycnostachya	Native					1	1
Lobelia siphilitica	Native					1	1
Lonicera tatarica	Introduced	Restricted		5			5
Melilotus albus	Introduced	Non-Restricted				1	1
Monarda fistulosa	Native					2	2
Morus alba	Introduced	Restricted				1	1
Oenothera biennis	Native					1	1
Oxalis stricta	Native					1	1
Panicum virgatum	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				1	1
Phleum pratense	Introduced					1	1
Physostegia virginiana	Native					1	1
Poa pratensis	Introduced					20	20
Potentilla norvegica	Native					1	1
Prunus serotina	Native			1			1
Pycnanthemum virginianum	Native					1	1
Quercus alba	Native					1	1
Quercus macrocarpa	Native			2			2
Ratibida pinnata	Native					1	1
Rhamnus cathartica	Introduced	Restricted		1			1
Rubus idaeus	Native					1	1
Rubus occidentalis	Native			1			1
Rudbeckia hirta	Native					1	1
Rumex crispus	Introduced					1	1
Salix interior	Native			1			1
Silene chalcedonica	Introduced					1	1
Silphium perfoliatum	Native					1	1
Smilax herbacea	Native					1	1
Solidago canadensis	Native					20	20
Solidago gigantea	Native					1	1
Sorghastrum nutans	Native					1	1
Stachys tenuifolia	Native					1	1
Symphyotrichum firmum	Native					1	1
Symphyotrichum lanceolatum	Native					1	1
Symphyotrichum novae-angliae	Native					1	1
Symphyotrichum pilosum	Native					1	1
Taraxacum officinale	Introduced					11	11
Toxicodendron radicans	Native					1	1
Trifolium pratense	Introduced					1	1
Ulmus rubra	Native		3				3
Viola sororia	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	21	75
Non-native Cover Subtotal	7	25
Total Cover Subtotal	28	100
Invasive Cover Subtotal	7	25
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	65	43
Non-native Cover Subtotal	86	57
Total Cover Subtotal	151	100
Invasive Cover Subtotal	3	2
Grand Total		
Native Cover Grand Total	**91**	**49**
Non-native Cover Grand Total	**93**	**51**
Total Cover Grand Total	**184**	**100**
Invasive Cover Grand Total	**10**	**5**

MMU-3 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		3	1			4
Achillea millefolium	Native					<1	<1
Ageratina altissima	Native					1	1
Agrostis gigantea	Introduced					1	1
Anemone canadensis	Native					1	1
Arctium minus	Introduced					<1	<1
Asclepias incarnata	Native					2	2
Asclepias syriaca	Native					1	1
Calamagrostis canadensis	Native					5	5
Calystegia sepium	Native				1		1
Carex lacustris	Native					1	1
Carex pellita	Native					3	3
Carex stricta	Native					12	12
Circaea canadensis	Native					2	2
Cirsium arvense	Introduced	Restricted				<1	<1
Cirsium discolor	Native					<1	<1
Cirsium vulgare	Introduced					<1	<1
Cornus amomum	Native			5			5
Cornus foemina	Native			5			5
Daucus carota	Introduced	Non-Restricted				1	1
Echinocystis lobata	Native				2		2
Elaeagnus umbellata	Introduced	Restricted		<1			<1
Equisetum arvense	Native					1	1
Erigeron annuus	Native					<1	<1
Eupatorium perfoliatum	Native					1	1
Eutrochium maculatum	Native					5	5
Fragaria virginiana	Native					1	1
Fraxinus pennsylvanica	Native			<1			<1
Galium aparine	Native					<1	<1
Geum aleppicum	Native					1	1
Geum canadense	Native					1	1
Hackelia virginiana	Native					1	1
Impatiens capensis	Native					3	3
Juglans nigra	Native		1				1
Juncus dudleyi	Native					1	1
Lathyrus palustris	Native				<1		<1
Lonicera tatarica	Introduced	Restricted		2			2
Lycopus americanus	Native					1	1
Lythrum salicaria	Introduced	Restricted				<1	<1
Melilotus officinalis	Introduced	Non-Restricted				<1	<1
Mentha canadensis	Native					1	1
Monarda fistulosa	Native					1	1
Morus alba	Introduced	Restricted	1				1
Parthenocissus quinquefolia	Native				1	1	2
Persicaria amphibia	Native					1	1
Persicaria maculosa	Introduced					1	1
Phalaris arundinacea	Introduced	Non-restricted				15	15
Phragmites australis ssp. australi	Introduced	Prohibited/Restricted				1	1
Pilea pumila	Native					1	1
Poa pratensis	Introduced					<1	<1
Populus deltoides	Native		8				8
Pycnanthemum virginianum	Native					4	4
Rhamnus cathartica	Introduced	Restricted		2		2	4
Rubus occidentalis	Native			2			2
Salix alba f. cv. 'Vitellina'	Excluded			<1			<1
Salix discolor	Native		2	6			8
Salix interior	Native			10			10
Salix nigra	Native		15				15
Sambucus canadensis	Native			1			1
Scirpus atrovirens	Native					1	1
Solidago canadensis	Native					2	2
Solidago gigantea	Native					8	8
Sonchus asper	Introduced					4	4
Stachys palustris	Native					3	3
Symphyotrichum firmum	Native					5	5
Symphyotrichum lanceolatum	Native					<1	<1
Symphyotrichum novae-angliae	Native					<1	<1
Symphyotrichum pilosum	Native					<1	<1
Teucrium canadense	Native					<1	<1
Toxicodendron radicans	Native					1	1
Typha angustifolia	Introduced	Restricted				25	25
Typha latifolia	Native					1	1
Urtica dioica	Native					1	1
Verbena hastata	Native					3	3
Verbena urticifolia	Native					<1	<1
Viburnum opulus	Introduced	Non-Restricted		2		2	4
Vitis riparia	Native				1		1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	29	97
Non-native Cover Subtotal	1	3
Total Cover Subtotal	30	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	30	83
Non-native Cover Subtotal	6	17
Total Cover Subtotal	36	100
Invasive Cover Subtotal	4	11
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	78	60
Non-native Cover Subtotal	51	40
Total Cover Subtotal	129	100
Invasive Cover Subtotal	43	33
Grand Total		
Native Cover Grand Total	**142**	**71**
Non-native Cover Grand Total	**58**	**29**
Total Cover Grand Total	**200**	**100**
Invasive Cover Grand Total	**48**	**24**

SMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native			1			1
Ageratina altissima	Native					1	1
Anemone quinquefolia	Native					1	1
Arctium lappa	Introduced					1	1
Arctium minus	Introduced					1	1
Arisaema triphyllum	Native					2	2
Carex blanda	Native					1	1
Carex rosea	Native					1	1
Carya cordiformis	Native		1				1
Carya ovata	Native		8				8
Celtis occidentalis	Native		25			1	26
Circaea canadensis	Native					4	4
Cirsium vulgare	Introduced					<1	<1
Conyza canadensis	Native					<1	<1
Crataegus mollis	Native			1			1
Dactylis glomerata	Introduced					<1	<1
Duchesnea indica	Introduced					1	1
Erechtites hieraciifolius	Native					<1	<1
Eutrochium purpureum	Native					<1	<1
Fraxinus americana	Native		1				1
Fraxinus pennsylvanica	Native			2		1	3
Galium aparine	Native					2	2
Geranium maculatum	Native					10	10
Geum canadense	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Hackelia virginiana	Native					2	2
Hemerocallis fulva	Introduced	Caution				<1	<1
Ligustrum vulgare	Introduced	Caution		<1			<1
Lonicera reticulata	Native				2		2
Lonicera tatarica	Introduced	Restricted		5			5
Maianthemum racemosum	Native					5	5
Morus alba	Introduced	Restricted		1		<1	1
Nepeta cataria	Introduced					<1	<1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native				1	10	11
Phalaris arundinacea	Introduced	Non-restricted				1	1
Podophyllum peltatum	Native					15	15
Prunus serotina	Native		15				15
Quercus alba	Native		30				30
Quercus macrocarpa	Native		5				5
Rhamnus cathartica	Introduced	Restricted		7		5	12
Rhus glabra	Native			1			1
Rubus occidentalis	Native					1	1
Silene latifolia	Introduced					<1	<1
Solanum dulcamara	Introduced					1	1
Solidago canadensis	Native					1	1
Sonchus oleraceus	Introduced					<1	<1
Symphyotrichum pilosum	Native					<1	<1
Taraxacum officinale	Introduced					1	1
Tilia americana	Native		5				5
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Toxicodendron radicans	Native					<1	<1
Trifolium repens	Introduced					1	1
Ulmus americana	Native		1				1
Ulmus rubra	Native		1				1
Verbascum thapsus	Introduced					<1	<1
Verbena urticifolia	Native					<1	<1
Vitis aestivalis	Native				<1		<1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	92	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	92	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	28
Non-native Cover Subtotal	13	72
Total Cover Subtotal	18	100
Invasive Cover Subtotal	13	72
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	60	81
Non-native Cover Subtotal	14	19
Total Cover Subtotal	74	100
Invasive Cover Subtotal	7	9
Grand Total		
Native Cover Grand Total	**162**	**86**
Non-native Cover Grand Total	**27**	**14**
Total Cover Grand Total	**189**	**100**
Invasive Cover Grand Total	**20**	**11**

TMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1			<1	<1
Ageratina altissima	Native					1	1
Agrimonia gryposepala	Native					<1	<1
Arctium minus	Introduced					1	1
Bromus inermis	Introduced	Non-Restricted				1	1
Carex blanda	Native					1	1
Carya ovata	Native		4	1		2	7
Carex pensylvanica	Native					2	2
Celtis occidentalis	Native					1	1
Circaea canadensis	Native					4	4
Convallaria majalis	Introduced	Non-Restricted				2	2
Erechtites hieraciifolius	Native					<1	<1
Fraxinus americana	Native		2				2
Fraxinus pennsylvanica	Native			5		3	8
Galium aparine	Native					1	1
Hypericum perforatum	Introduced	Non-Restricted				<1	<1
Lonicera tatarica	Introduced	Restricted		10			10
Melilotus officinalis	Introduced	Non-Restricted				1	1
Morus alba	Introduced	Restricted	8				8
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native					1	1
Pinus resinosa	Native		75				75
Prunus serotina	Native		15				15
Rhamnus cathartica	Introduced	Restricted	1	10		15	26
Rubus occidentalis	Native					<1	<1
Securigera varia	Introduced	Restricted				1	1
Smilax herbacea	Native					<1	<1
Solidago canadensis	Native					1	1
Toxicodendron radicans	Native					1	1
Trifolium repens	Introduced					<1	<1
Viburnum opulus	Introduced	Non-Restricted		4		3	7
Vitis aestivalis	Native				5		5
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	97	92
Non-native Cover Subtotal	9	8
Total Cover Subtotal	106	100
Invasive Cover Subtotal	9	8
Sapling/Shrub		
Native Cover Subtotal	6	20
Non-native Cover Subtotal	24	80
Total Cover Subtotal	30	100
Invasive Cover Subtotal	20	67
Vine		
Native Cover Subtotal	7	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	19	44
Non-native Cover Subtotal	24	56
Total Cover Subtotal	43	100
Invasive Cover Subtotal	16	37
Grand Total		
Native Cover Grand Total	**129**	**69**
Non-native Cover Grand Total	**57**	**31**
Total Cover Grand Total	**186**	**100**
Invasive Cover Grand Total	**45**	**24**

TMU-2 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Ageratina altissima	Native					1	1
Ambrosia artemisiifolia	Native					1	1
Asclepias syriaca	Native					<1	<1
Bromus inermis	Introduced	Non-Restricted				10	10
Bromus arvensis	Introduced					15	15
Centaurea stoebe	Introduced	Restricted				15	15
Cirsium vulgare	Introduced					2	2
Conyza canadensis	Native					2	2
Dactylis glomerata	Introduced					1	1
Daucus carota	Introduced	Non-Restricted				5	5
Erigeron annuus	Native					1	1
Euphorbia virgata	Introduced					<1	<1
Fraxinus americana	Native		1				1
Juglans nigra	Native		45	10			55
Juniperus virginiana	Native			1			1
Lolium arundinaceum	Introduced					5	5
Lonicera tatarica	Introduced	Restricted		3			3
Melilotus officinalis	Introduced	Non-Restricted				2	2
Monarda fistulosa	Native					5	5
Morus alba	Introduced	Restricted	2				2
Oxalis stricta	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				1	1
Phleum pratense	Introduced					<1	<1
Plantago major	Introduced					1	1
Poa pratensis	Introduced					5	5
Populus deltoides	Native		2				2
Quercus velutina	Native		1				1
Rhamnus cathartica	Introduced	Restricted		2			2
Rhus glabra	Native			20			20
Rubus occidentalis	Native			2			2
Sambucus canadensis	Native			1			1
Securigera varia	Introduced	Restricted				10	10
Solidago canadensis	Native					15	15
Symphyotrichum ericoides	Native					<1	<1
Symphyotrichum pilosum	Native					1	1
Taraxacum officinale	Introduced					1	1
Tragopogon dubius	Introduced					<1	<1
Verbena urticifolia	Native					<1	<1
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	49	96
Non-native Cover Subtotal	2	4
Total Cover Subtotal	51	100
Invasive Cover Subtotal	2	4
Sapling/Shrub		
Native Cover Subtotal	34	87
Non-native Cover Subtotal	5	13
Total Cover Subtotal	39	100
Invasive Cover Subtotal	5	13
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	27	27
Non-native Cover Subtotal	73	73
Total Cover Subtotal	100	100
Invasive Cover Subtotal	25	25
Grand Total		
Native Cover Grand Total	**115**	**59**
Non-native Cover Grand Total	**80**	**41**
Total Cover Grand Total	**195**	**100**
Invasive Cover Grand Total	**32**	**16**

UMU-1 (Emergent Marsh - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					1	1
Agrostis gigantea	Introduced					1	1
Alisma subcordatum	Native					1	1
Asclepias incarnata	Native					1	1
Carex bebbii	Native					1	1
Carex cristatella	Native					1	1
Carex pellita	Native					2	2
Carex stipata	Native					1	1
Carex stricta	Native					5	5
Carex vulpinoidea	Native					1	1
Cirsium arvense	Introduced	Restricted				3	3
Eleocharis erythropoda	Native					1	1
Eutrochium maculatum	Native					1	1
Geum aleppicum	Native					1	1
Helianthus grosseserratus	Native					2	2
Hypericum ascyron	Native					1	1
Juncus dudleyi	Native					2	2
Leersia oryzoides	Native					1	1
Lemna minor	Native					1	1
Lonicera tatarica	Introduced	Restricted		2			2
Lycopus americanus	Native					1	1
Lythrum alatum	Native					1	1
Onoclea sensibilis	Native					1	1
Persicaria amphibia	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				5	5
Pycnanthemum virginianum	Native					1	1
Rorippa palustris	Native					1	1
Rubus allegheniensis	Native			1			1
Schoenoplectus tabernaemontar	Native					1	1
Scirpus atrovirens	Native					2	2
Scirpus cyperinus	Native					1	1
Solidago canadensis	Native					2	2
Solidago gigantea	Native					2	2
Symphyotrichum firmum	Native					10	10
Typha angustifolia	Introduced	Restricted				20	20
Typha latifolia	Native					25	25
Verbena hastata	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	1	33
Non-native Cover Subtotal	2	67
Total Cover Subtotal	3	100
Invasive Cover Subtotal	2	67
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	74	69
Non-native Cover Subtotal	34	31
Total Cover Subtotal	108	100
Invasive Cover Subtotal	28	26
Grand Total		
Native Cover Grand Total	**75**	**68**
Non-native Cover Grand Total	**36**	**32**
Total Cover Grand Total	**111**	**100**
Invasive Cover Grand Total	**30**	**27**

UMU-1 (Hardwood Swamp - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		5				5
Acer saccharinum	Native		3				3
Agrostis gigantea	Introduced					2	2
Agrimonia gryposepala	Native					3	3
Boehmeria cylindrica	Native					3	3
Carex bebbii	Native					5	5
Carex blanda	Native					<1	<1
Carex scoparia	Native					<1	<1
Carex stipata	Native					1	1
Carex vulpinoidea	Native					2	2
Carya ovata	Native		10	2			12
Cirsium arvense	Introduced	Restricted				2	2
Cornus foemina	Native			5			5
Equisetum arvense	Native					3	3
Erechtites hieraciifolius	Native					<1	<1
Fraxinus pennsylvanica	Native			3			3
Geum canadense	Native					3	3
Glyceria striata	Native					5	5
Hackelia virginiana	Native					2	2
Impatiens capensis	Native					5	5
Juncus dudleyi	Native					1	1
Lonicera tatarica	Introduced	Restricted		2			2
Lycopus americanus	Native					1	1
Monarda fistulosa	Native					<1	<1
Parthenocissus quinquefolia	Native				5		5
Persicaria sagittata	Native					3	3
Phalaris arundinacea	Introduced	Non-restricted				30	30
Populus deltoides	Native		5				5
Quercus macrocarpa	Native		20				20
Rhamnus cathartica	Introduced	Restricted				1	1
Rosa multiflora	Introduced	Restricted		10			10
Rubus allegheniensis	Native			3			3
Salix bebbiana	Native			15			15
Salix interior	Native			5			5
Salix nigra	Native		10				10
Solanum dulcamara	Introduced					2	2
Solidago gigantea	Native					8	8
Symphyotrichum lateriflorum	Native					1	1
Thelypteris palustris	Native					1	1
Toxicodendron radicans	Native					1	1
Typha angustifolia	Introduced	Restricted				1	1
Vitis riparia	Native				7		7

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	53	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	53	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	33	73
Non-native Cover Subtotal	12	27
Total Cover Subtotal	45	100
Invasive Cover Subtotal	12	27
Vine		
Native Cover Subtotal	12	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	12	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	48	86
Non-native Cover Subtotal	8	14
Total Cover Subtotal	56	100
Invasive Cover Subtotal	34	61
Grand Total		
Native Cover Grand Total	**146**	**88**
Non-native Cover Grand Total	**20**	**12**
Total Cover Grand Total	**166**	**100**
Invasive Cover Grand Total	**46**	**28**

UMU-1 (Shrub-carr East - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					1	1
Agrostis gigantea	Introduced					1	1
Agrimonia gryposepala	Native					1	1
Asclepias incarnata	Native					1	1
Asclepias syriaca	Native					1	1
Calystegia sepium	Native				1		1
Carex bebbii	Native					1	1
Carex normalis	Native					1	1
Carex stipata	Native					1	1
Carex vulpinoidea	Native					1	1
Cornus amomum	Native			10			10
Cornus foemina	Native			2			2
Cornus sericea	Native			25			25
Daucus carota	Introduced	Non-Restricted				1	1
Eleocharis palustris	Native					1	1
Elymus repens	Introduced					1	1
Erigeron philadelphicus	Native					1	1
Euthamia graminifolia	Native					1	1
Geum aleppicum	Native					1	1
Glyceria striata	Native					1	1
Impatiens capensis	Native					1	1
Juglans nigra	Native					2	2
Lonicera tatarica	Introduced	Restricted		1			1
Lotus corniculatus	Introduced	Non-Restricted				1	1
Lycopus americanus	Native					1	1
Malus pumila	Introduced		1				1
Monarda fistulosa	Native					1	1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native				1		1
Pastinaca sativa	Introduced	Restricted				1	1
Persicaria amphibia	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				15	15
Phleum pratense	Introduced					1	1
Poa palustris	Native					1	1
Poa pratensis	Introduced					1	1
Potentilla norvegica	Native					1	1
Quercus ellipsoidalis	Native		1				1
Rosa multiflora	Introduced	Restricted		5			5
Salix amygdaloides	Native			2			2
Salix bebbiana	Native			1			1
Salix discolor	Native			1			1
Salix interior	Native			5			5
Salix nigra	Native		5				5
Scirpus pendulus	Native					1	1
Solidago canadensis	Native					3	3
Solidago gigantea	Native					2	2
Spartina pectinata	Native					1	1
Symphyotrichum firmum	Native					2	2
Symphyotrichum lanceolatum	Native					1	1
Toxicodendron radicans	Native					1	1
Verbena hastata	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	88
Non-native Cover Subtotal	6	12
Total Cover Subtotal	52	100
Invasive Cover Subtotal	6	12
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	34	61
Non-native Cover Subtotal	22	39
Total Cover Subtotal	56	100
Invasive Cover Subtotal	17	30
Grand Total		
Native Cover Grand Total	**90**	**76**
Non-native Cover Grand Total	**29**	**24**
Total Cover Grand Total	**119**	**100**
Invasive Cover Grand Total	**23**	**19**

UMU-1 (Shrub-carr North - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		5				5
Agrimonia gryposepala	Native					5	5
Arctium minus	Introduced					3	3
Boehmeria cylindrica	Native					3	3
Carex bebbii	Native					3	3
Carya ovata	Native		3				3
Cornus foemina	Native			10			10
Cornus sericea	Native			5			5
Dryopteris carthusiana	Native					2	2
Equisetum arvense	Native					1	1
Fraxinus pennsylvanica	Native			5		2	7
Geum canadense	Native					3	3
Glechoma hederacea	Introduced	Caution				1	1
Impatiens capensis	Native					5	5
Juglans nigra	Native		5				5
Juniperus virginiana	Native		1				1
Lonicera tatarica	Introduced	Restricted		8			8
Morus alba	Introduced	Restricted	1				1
Parthenocissus quinquefolia	Native				7	4	11
Pastinaca sativa	Introduced	Restricted				1	1
Persicaria virginiana	Native					3	3
Phalaris arundinacea	Introduced	Non-restricted				10	10
Populus deltoides	Native		10				10
Quercus macrocarpa	Native		5				5
Quercus rubra	Native		2				2
Rhamnus cathartica	Introduced	Restricted				2	2
Rosa multiflora	Introduced	Restricted		7			7
Rubus occidentalis	Native			3			3
Salix interior	Native			10			10
Salix nigra	Native		8				8
Scirpus atrovirens	Native					1	1
Scirpus cyperinus	Native					1	1
Solidago gigantea	Native					5	5
Symphyotrichum lateriflorum	Native					3	3
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Vitis riparia	Native				7		7

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	39	98
Non-native Cover Subtotal	1	3
Total Cover Subtotal	40	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	33	69
Non-native Cover Subtotal	15	31
Total Cover Subtotal	48	100
Invasive Cover Subtotal	15	31
Vine		
Native Cover Subtotal	14	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	14	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	41	69
Non-native Cover Subtotal	18	31
Total Cover Subtotal	59	100
Invasive Cover Subtotal	14	24
Grand Total		
Native Cover Grand Total	**127**	**79**
Non-native Cover Grand Total	**34**	**21**
Total Cover Grand Total	**161**	**100**
Invasive Cover Grand Total	**30**	**19**

UMU-1 (Wet Meadow North - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					1	1
Agrostis gigantea	Introduced					1	1
Asclepias incarnata	Native					1	1
Asclepias syriaca	Native					2	2
Carex pellita	Native					1	1
Carex stipata	Native					1	1
Carex vulpinoidea	Native					1	1
Cirsium arvense	Introduced	Restricted				2	2
Cirsium vulgare	Introduced					1	1
Cornus foemina	Native			2			2
Echinocystis lobata	Native				1		1
Elaeagnus umbellata	Introduced	Restricted		1			1
Eleocharis acicularis	Native					1	1
Erigeron strigosus	Native					1	1
Euthamia graminifolia	Native					1	1
Fraxinus pennsylvanica	Native		1				1
Hypericum perforatum	Introduced	Non-Restricted				1	1
Juglans nigra	Native					2	2
Juncus dudleyi	Native					1	1
Lactuca serriola	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		4			4
Pastinaca sativa	Introduced	Restricted				1	1
Persicaria amphibia	Native					1	1
Persicaria hydropiper	Introduced					1	1
Persicaria maculosa	Introduced					2	2
Phalaris arundinacea	Introduced	Non-restricted				35	35
Plantago major	Introduced					1	1
Poa palustris	Native					1	1
Poa pratensis	Introduced					13	13
Rosa multiflora	Introduced	Restricted		2			2
Rumex crispus	Introduced					2	2
Sambucus canadensis	Native			1			1
Scirpus atrovirens	Native					2	2
Scirpus cyperinus	Native					1	1
Solidago canadensis	Native					10	10
Solidago gigantea	Native					2	2
Symphyotrichum firmum	Native					8	8
Symphyotrichum novae-angliae	Native					1	1
Viburnum lentago	Native			5			5
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	8	53
Non-native Cover Subtotal	7	47
Total Cover Subtotal	15	100
Invasive Cover Subtotal	7	47
Vine		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	39	39
Non-native Cover Subtotal	61	61
Total Cover Subtotal	100	100
Invasive Cover Subtotal	38	38
Grand Total		
Native Cover Grand Total	**51**	**43**
Non-native Cover Grand Total	**68**	**57**
Total Cover Grand Total	**119**	**100**
Invasive Cover Grand Total	**45**	**38**

UMU-1 (Wet Meadow South - Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Boehmeria cylindrica	Native					5	5
Carex vulpinoidea	Native					3	3
Cirsium arvense	Introduced	Restricted				4	4
Glyceria striata	Native					10	10
Impatiens capensis	Native					5	5
Lycopus americanus	Native					2	2
Persicaria sagittata	Native					7	7
Phalaris arundinacea	Introduced	Non-restricted				50	50
Quercus macrocarpa	Native		2				2
Salix bebbiana	Native			5			5
Scirpus cyperinus	Native					2	2
Solanum dulcamara	Introduced					5	5
Solidago gigantea	Native					8	8
Urtica dioica	Native					3	3
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	45	43
Non-native Cover Subtotal	59	57
Total Cover Subtotal	104	100
Invasive Cover Subtotal	54	52
Grand Total		
Native Cover Grand Total	**57**	**49**
Non-native Cover Grand Total	**59**	**51**
Total Cover Grand Total	**116**	**100**
Invasive Cover Grand Total	**54**	**47**

UMU-2 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1				1
Acer saccharinum	Native					1	1
Agrimonia gryposepala	Native					2	2
Alliaria petiolata	Introduced	Restricted				1	1
Anemone canadensis	Native					1	1
Arctium minus	Introduced					1	1
Arisaema triphyllum	Native					1	1
Athyrium filix-femina	Native					1	1
Boehmeria cylindrica	Native					1	1
Calystegia sepium	Native				1		1
Carex normalis	Native					2	2
Carex rosea	Native					1	1
Carex tenera	Native					1	1
Carex vulpinoidea	Native					1	1
Carya ovata	Native		25				25
Circaea canadensis	Native					2	2
Cirsium arvense	Introduced	Restricted				5	5
Cornus foemina	Native			5			5
Cornus sericea	Native			5			5
Crataegus mollis	Native			1			1
Daucus carota	Introduced	Non-Restricted				1	1
Echinocystis lobata	Native				1		1
Elymus hystrix	Native					2	2
Elymus villosus	Native					1	1
Epilobium coloratum	Native					1	1
Fraxinus pennsylvanica	Native			1			1
Fragaria virginiana	Native					1	1
Galium aparine	Native					1	1
Geum canadense	Native					1	1
Glyceria striata	Native					1	1
Hackelia virginiana	Native					1	1
Impatiens capensis	Native					2	2
Juncus dudleyi	Native					1	1
Lactuca canadensis	Native					1	1
Laportea canadensis	Native					2	2
Lonicera tatarica	Introduced	Restricted		2			2
Lycopus americanus	Native					1	1
Onoclea sensibilis	Native					1	1
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native				2		2
Persicaria sagittata	Native					1	1
Persicaria virginiana	Native					1	1
Poa palustris	Native					1	1
Populus alba	Introduced	Restricted	1				1
Potentilla simplex	Native					1	1
Prunus serotina	Native			2			2
Quercus alba	Native		5				5
Quercus macrocarpa	Native		15				15
Quercus rubra	Native		10				10
Rhamnus cathartica	Introduced	Restricted		2		2	4
Ribes missouriense	Native			1			1
Rosa multiflora	Introduced	Restricted		10			10
Rubus allegheniensis	Native			2			2
Rubus occidentalis	Native			1			1
Sanicula odorata	Native					1	1
Solidago canadensis	Native					1	1
Solanum dulcamara	Introduced					1	1
Symphyotrichum lateriflorum	Native					1	1
Taraxacum officinale	Introduced					1	1
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Toxicodendron radicans	Native					2	2
Trifolium hybridum	Introduced					1	1
Trifolium repens	Introduced					1	1
Ulmus americana	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		3			3
Viola sororia	Native					1	1
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	56	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	57	100
Invasive Cover Subtotal	1	2
Sapling/Shrub		
Native Cover Subtotal	18	51
Non-native Cover Subtotal	17	49
Total Cover Subtotal	35	100
Invasive Cover Subtotal	14	40
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	43	74
Non-native Cover Subtotal	15	26
Total Cover Subtotal	58	100
Invasive Cover Subtotal	9	16
Grand Total		
Native Cover Grand Total	**126**	**79**
Non-native Cover Grand Total	**33**	**21**
Total Cover Grand Total	**159**	**100**
Invasive Cover Grand Total	**24**	**15**

UMU-3 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		10	5			15
Ageratina altissima	Native					5	5
Agrostis gigantea	Introduced					2	2
Agrimonia gryposepala	Native					3	3
Asclepias syriaca	Native					1	1
Bromus inermis	Introduced	Non-Restricted				3	3
Carex bebbii	Native					2	2
Carex vulpinoidea	Native					3	3
Circaea canadensis	Native					5	5
Cirsium arvense	Introduced	Restricted				3	3
Dryopteris carthusiana	Native					1	1
Erigeron annuus	Native					2	2
Fraxinus pennsylvanica	Native			5			5
Fragaria virginiana	Native					2	2
Geum canadense	Native					3	3
Hackelia virginiana	Native					2	2
Juglans nigra	Native		5	5			10
Lonicera tatarica	Introduced	Restricted		5			5
Malus pumila	Introduced		20				20
Onoclea sensibilis	Native					2	2
Oxalis stricta	Native					1	1
Pastinaca sativa	Introduced	Restricted				10	10
Persicaria amphibia	Native					3	3
Persicaria virginiana	Native					10	10
Phalaris arundinacea	Introduced	Non-restricted				35	35
Phleum pratense	Introduced					8	8
Picea abies	Introduced		15				15
Pinus resinosa	Native		20				20
Prunella vulgaris	Native					3	3
Rosa multiflora	Introduced	Restricted		3			3
Rubus occidentalis	Native			15			15
Solidago canadensis	Native					15	15
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Urtica dioica	Native					5	5
Verbena hastata	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Vitis riparia	Native				15		15

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	35	50
Non-native Cover Subtotal	35	50
Total Cover Subtotal	70	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	30	75
Non-native Cover Subtotal	10	25
Total Cover Subtotal	40	100
Invasive Cover Subtotal	8	20
Vine		
Native Cover Subtotal	15	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	15	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	69	53
Non-native Cover Subtotal	62	47
Total Cover Subtotal	131	100
Invasive Cover Subtotal	49	37
Grand Total		
Native Cover Grand Total	**149**	**58**
Non-native Cover Grand Total	**107**	**42**
Total Cover Grand Total	**256**	**100**
Invasive Cover Grand Total	**57**	**22**

WMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1	2			3
Ageratina altissima	Native					2	2
Agrimonia gryposepala	Native					<1	<1
Alliaria petiolata	Introduced	Restricted				1	1
Anemone quinquefolia	Native					2	2
Anemone virginiana	Native					1	1
Arisaema triphyllum	Native					1	1
Bromus inermis	Introduced	Non-Restricted				1	1
Carex blanda	Native					1	1
Carex rosea	Native					2	2
Carya ovata	Native		1				1
Celtis occidentalis	Native		3				3
Centaurea stoebe	Introduced	Restricted				1	1
Circaea canadensis	Native					5	5
Convallaria majalis	Introduced	Non-Restricted				1	1
Cornus amomum	Native			<1			<1
Daucus carota	Introduced	Non-Restricted				1	1
Erigeron annuus	Native					<1	<1
Fraxinus americana	Native		3				3
Fraxinus pennsylvanica	Native			5		5	10
Galium aparine	Native					2	2
Geranium maculatum	Native					1	1
Geum canadense	Native					3	3
Hackelia virginiana	Native					1	1
Hypericum punctatum	Native					1	1
Juglans nigra	Native		10				10
Juniperus virginiana	Native		1				1
Lonicera reticulata	Native				1		1
Lonicera tatarica	Introduced	Restricted		7			7
Maianthemum racemosum	Native					4	4
Melilotus officinalis	Introduced	Non-Restricted				<1	<1
Monarda fistulosa	Native					1	1
Morus alba	Introduced	Restricted	2			<1	2
Oxalis stricta	Native					1	1
Parthenocissus quinquefolia	Native					5	5
Poa pratensis	Introduced					<1	<1
Podophyllum peltatum	Native					3	3
Populus deltoides	Native		5				5
Populus grandidentata	Native			<1			<1
Potentilla recta	Introduced					<1	<1
Prunus serotina	Native		40			2	42
Quercus alba	Native		30				30
Quercus macrocarpa	Native		5				5
Quercus velutina	Native		8	1			9
Rhamnus cathartica	Introduced	Restricted	3	20		8	31
Rhus glabra	Native			10			10
Ribes americanum	Native			1			1
Rubus occidentalis	Native			1			1
Sambucus canadensis	Native			1			1
Scrophularia marilandica	Native					<1	<1
Smilax herbacea	Native					1	1
Solidago canadensis	Native					1	1
Solidago gigantea	Native					<1	<1
Symphyotrichum lateriflorum	Native					1	1
Symphyotrichum pilosum	Native					<1	<1
Taraxacum officinale	Introduced					<1	<1
Tilia americana	Native		1				1
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Toxicodendron radicans	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		3		2	5
Viola sororia	Native					1	1
Vitis aestivalis	Native				5		5
Vitis riparia	Native				2		2
Zanthoxylum americanum	Native			5			5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	108	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	113	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	26	46
Non-native Cover Subtotal	30	54
Total Cover Subtotal	56	100
Invasive Cover Subtotal	27	48
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	48	75
Non-native Cover Subtotal	16	25
Total Cover Subtotal	64	100
Invasive Cover Subtotal	11	17
Grand Total		
Native Cover Grand Total	**190**	**79**
Non-native Cover Grand Total	**51**	**21**
Total Cover Grand Total	**241**	**100**
Invasive Cover Grand Total	**43**	**18**

YMU-1 (Summer 2022)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Arctium minus	Introduced					1	1
Asclepias incarnata	Native					<1	<1
Asclepias syriaca	Native					1	1
Calystegia sepium	Native				5		5
Carex lacustris	Native					1	1
Cichorium intybus	Introduced					<1	<1
Cirsium arvense	Introduced	Restricted				1	1
Cirsium vulgare	Introduced					1	1
Cornus amomum	Native			5			5
Cornus sericea	Native			7			7
Daucus carota	Introduced	Non-Restricted				1	1
Echinochloa crus-galli	Introduced					1	1
Fraxinus pennsylvanica	Native			6			6
Geum canadense	Native					2	2
Glechoma hederacea	Introduced	Caution				<1	<1
Hackelia virginiana	Native					2	2
Hordeum jubatum	Introduced					<1	<1
Impatiens capensis	Native					10	10
Juglans nigra	Native		1				1
Juniperus virginiana	Native			<1			<1
Lactuca serriola	Introduced					<1	<1
Lonicera tatarica	Introduced	Restricted		8			8
Lysimachia nummularia	Introduced	Restricted				2	2
Monarda fistulosa	Native					1	1
Pastinaca sativa	Introduced	Restricted				<1	<1
Persicaria maculosa	Introduced					3	3
Phalaris arundinacea	Introduced	Non-restricted				15	15
Populus deltoides	Native		60				60
Rhamnus cathartica	Introduced	Restricted		7		3	10
Ribes americanum	Native			2			2
Rubus occidentalis	Native			1			1
Salix discolor	Native			10			10
Salix nigra	Native		2	5			7
Sambucus canadensis	Native			3			3
Solanum dulcamara	Introduced					2	2
Solidago canadensis	Native					4	4
Typha angustifolia	Introduced	Restricted				20	20
Verbena hastata	Native					1	1
Verbena urticifolia	Native					1	1
Vitis riparia	Native				4		4

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	63	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	63	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	39	72
Non-native Cover Subtotal	15	28
Total Cover Subtotal	54	100
Invasive Cover Subtotal	15	28
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	23	32
Non-native Cover Subtotal	48	68
Total Cover Subtotal	71	100
Invasive Cover Subtotal	41	58
Grand Total		
Native Cover Grand Total	**134**	**68**
Non-native Cover Grand Total	**63**	**32**
Total Cover Grand Total	**197**	**100**
Invasive Cover Grand Total	**56**	**28**

BMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer saccharum	Native		50	15		10	75
Allium tricoccum	Native					2	2
Cardamine concatenata	Native					35	35
Celtis occidentalis	Native		25	1		1	27
Claytonia virginica	Native					<1	<1
Erythronium albidum	Native					45	45
Fraxinus pennsylvanica	Native			1		1	2
Hydrophyllum virginianum	Native					1	1
Lonicera tatarica	Introduced	Restricted		<1			<1
Maianthemum racemosum	Native					1	1
Podophyllum peltatum	Native					5	5
Prunus serotina	Native					1	1
Sanguinaria canadensis	Native					1	1
Thalictrum thalictroides	Native					7	7
Tilia americana	Native		25				25
Viburnum opulus	Introduced	Non-Restricted		1			1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	100	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	100	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	17	94
Non-native Cover Subtotal	1	6
Total Cover Subtotal	18	100
Invasive Cover Subtotal	<1	<1
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	110	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	110	100
Invasive Cover Subtotal	0	0
Grand Total		
Native Cover Grand Total	**227**	**100**
Non-native Cover Grand Total	**1**	**0**
Total Cover Grand Total	**228**	**100**
Invasive Cover Grand Total	**0**	**0**

BMU-2 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		7	2			9
Agrimonia gryposepala	Native					<1	<1
Anemone quinquefolia	Native					<1	<1
Arctium minus	Introduced					<1	<1
Cardamine concatenata	Native					<1	<1
Carex sprengelii	Native					1	1
Catalpa speciosa	Introduced		1				1
Celtis occidentalis	Native		3				3
Cornus amomum	Native			<1			<1
Erigeron annuus	Native					<1	<1
Erythronium albidum	Native					2	2
Fraxinus americana	Native		1				1
Fraxinus pennsylvanica	Native			3			3
Geum canadense	Native					1	1
Hemerocallis fulva	Introduced	Caution				2	2
Hydrophyllum virginianum	Native					1	1
Impatiens capensis	Native					2	2
Juglans nigra	Native		1	<1			1
Leonurus cardiaca	Introduced					<1	<1
Lonicera tatarica	Introduced	Restricted		5			5
Lysimachia ciliata	Native					1	1
Maianthemum racemosum	Native					<1	<1
Phalaris arundinacea	Introduced	Non-restricted				7	7
Podophyllum peltatum	Native					1	1
Populus deltoides	Native		5				5
Quercus bicolor	Native		1				1
Rhamnus cathartica	Introduced	Restricted		4			4
Ribes americanum	Native					4	4
Salix bebbiana	Native		1				1
Salix nigra	Native		1				1
Thalictrum thalictroides	Native					<1	<1
Tilia americana	Native		3	<1			3
Torilis japonica	Introduced	Prohibited/Restricted				<1	<1
Ulmus americana	Native		1				1
Urtica dioica	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					1	1
Vitis aestivalis	Native				1		1
Vitis riparia	Native				3		3

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	24	96
Non-native Cover Subtotal	1	4
Total Cover Subtotal	25	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	31
Non-native Cover Subtotal	11	69
Total Cover Subtotal	16	100
Invasive Cover Subtotal	9	56
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	15	63
Non-native Cover Subtotal	9	38
Total Cover Subtotal	24	100
Invasive Cover Subtotal	7	29
Grand Total		
Native Cover Grand Total	**48**	**70**
Non-native Cover Grand Total	**21**	**30**
Total Cover Grand Total	**69**	**100**
Invasive Cover Grand Total	**16**	**23**

GMU-1A (Emergent Marsh - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Carex stricta	Native					5	5
Lonicera tatarica	Introduced	Restricted		2			2
Phalaris arundinacea	Introduced	Non-restricted				35	35
Typha angustifolia	Introduced	Restricted				1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	2	100
Total Cover Subtotal	2	100
Invasive Cover Subtotal	2	100
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	5	12
Non-native Cover Subtotal	36	88
Total Cover Subtotal	41	100
Invasive Cover Subtotal	36	88
Grand Total		
Native Cover Grand Total	**5**	**12**
Non-native Cover Grand Total	**38**	**88**
Total Cover Grand Total	**43**	**100**
Invasive Cover Grand Total	**38**	**88**

GMU-1A (Southern Hardwood Swamp - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer saccharinum	Native		30				30
Achillea millefolium	Native					1	1
Agrimonia gryposepala	Native					1	1
Agrostis gigantea	Introduced					5	5
Barbarea vulgaris	Introduced					1	1
Carex stricta	Native					1	1
Cornus foemina	Native			2			2
Cornus sericea	Native			1			1
Erigeron annuus	Native					2	2
Galium aparine	Native					<1	<1
Juniperus virginiana	Native		1				1
Lonicera tatarica	Introduced	Restricted		10			10
Lysimachia nummularia	Introduced	Restricted				1	1
Malus pumila	Introduced		1				1
Phalaris arundinacea	Introduced	Non-restricted				20	20
Populus deltoides	Native		15				15
Rhamnus cathartica	Introduced	Restricted				3	3
Ribes americanum	Native			1			1
Rosa multiflora	Introduced	Restricted		3			3
Salix discolor	Native		1	5			6
Salix interior	Native			2			2
Salix nigra	Native		10				10
Symphyotrichum lanceolatun	Native					2	2
Symphyotrichum lateriflorum	Native					2	2
Taraxacum officinale	Introduced					1	1
Trifolium pratense	Introduced					1	1
Viola sororia	Native					2	2
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	57	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	58	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	11	46
Non-native Cover Subtotal	13	54
Total Cover Subtotal	24	100
Invasive Cover Subtotal	13	54
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	11	26
Non-native Cover Subtotal	32	74
Total Cover Subtotal	43	100
Invasive Cover Subtotal	24	56
Grand Total		
Native Cover Grand Total	**84**	**65**
Non-native Cover Grand Total	**46**	**35**
Total Cover Grand Total	**130**	**100**
Invasive Cover Grand Total	**37**	**28**

GMU-1A (Wet Meadow - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					1	1
Barbarea vulgaris	Introduced					1	1
Calamagrostis canadensis	Native					2	2
Carex pellita	Native					2	2
Carex stricta	Native					20	20
Cicuta maculata	Native					1	1
Cornus foemina	Native			5			5
Cornus sericea	Native			2			2
Elaeagnus umbellata	Introduced	Restricted				1	1
Fraxinus pennsylvanica	Native					1	1
Galium aparine	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Lonicera tatarica	Introduced	Restricted				20	20
Lysimachia nummularia	Introduced	Restricted				1	1
Packera plattensis	Native					<1	<1
Pastinaca sativa	Introduced	Restricted				1	1
Phalaris arundinacea	Introduced	Non-restricted				30	30
Populus deltoides	Native					1	1
Rhamnus cathartica	Introduced	Restricted		5			5
Ribes americanum	Native			1			1
Rosa multiflora	Introduced	Restricted		1			1
Rubus allegheniensis	Native			1			1
Scirpus cyperinus	Native					1	1
Thalictrum dasycarpum	Native					1	1
Toxicodendron radicans	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	9	60
Non-native Cover Subtotal	6	40
Total Cover Subtotal	15	100
Invasive Cover Subtotal	6	40
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	32	37
Non-native Cover Subtotal	55	63
Total Cover Subtotal	87	100
Invasive Cover Subtotal	53	61
Grand Total		
Native Cover Grand Total	**43**	**41**
Non-native Cover Grand Total	**61**	**59**
Total Cover Grand Total	**104**	**100**
Invasive Cover Grand Total	**59**	**57**

GMU-1B (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer saccharinum	Native		1				1
Agrostis gigantea	Introduced					3	3
Arctium minus	Introduced					<1	<1
Barbarea vulgaris	Introduced					1	1
Carex stricta	Native					10	8
Cirsium vulgare	Introduced					<1	<1
Dactylis glomerata	Introduced					1	1
Erigeron annuus	Native					1	1
Fraxinus pennsylvanica	Native			1			1
Geum canadense	Native					1	1
Hemerocallis fulva	Introduced	Caution				1	1
Impatiens capensis	Native					1	1
Juglans nigra	Native		1				1
Monarda fistulosa	Native					<1	<1
Pastinaca sativa	Introduced	Restricted				1	1
Phalaris arundinacea	Introduced	Non-restricted				10	10
Poa pratensis	Introduced					5	5
Populus deltoides	Native		2				2
Ranunculus recurvatus	Native					1	1
Robinia pseudoacacia	Introduced	Restricted	1				1
Rubus occidentalis	Native			1			1
Salix discolor	Native			1			1
Salix nigra	Native		2				2
Sambucus canadensis	Native			3			3
Taraxacum officinale	Introduced					1	1
Typha angustifolia	Introduced	Restricted				1	1
Urtica dioica	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	1	14
Sapling/Shrub		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	14	37
Non-native Cover Subtotal	24	63
Total Cover Subtotal	38	100
Invasive Cover Subtotal	12	32
Grand Total		
Native Cover Grand Total	**28**	**53**
Non-native Cover Grand Total	**25**	**47**
Total Cover Grand Total	**53**	**100**
Invasive Cover Grand Total	**13**	**25**

GMU-2A (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Agrostis gigantea	Introduced					2	2
Agrimonia gryposepala	Native					1	1
Barbarea vulgaris	Introduced					1	1
Carex blanda	Native					1	1
Cornus foemina	Native			10			10
Dactylis glomerata	Introduced					2	2
Daucus carota	Introduced	Non-Restricted				2	2
Duchesnea indica	Introduced					1	1
Erigeron strigosus	Native					2	2
Fraxinus pennsylvanica	Native					1	1
Fragaria virginiana	Native					1	1
Geum canadense	Native					1	1
Lonicera tatarica	Introduced	Restricted		20			20
Lysimachia nummularia	Introduced	Restricted				1	1
Monarda fistulosa	Native					1	1
Parthenocissus quinquefolia	Native					1	1
Pastinaca sativa	Introduced	Restricted				1	1
Phalaris arundinacea	Introduced	Non-restricted				3	3
Poa pratensis	Introduced					7	7
Prunus serotina	Native					1	1
Quercus ellipsoidalis	Native		1				1
Quercus macrocarpa	Native					2	2
Ranunculus abortivus	Native					<1	<1
Rhamnus cathartica	Introduced	Restricted		5			5
Rosa multiflora	Introduced	Restricted		3			3
Rubus allegheniensis	Native					2	2
Rubus occidentalis	Native					1	1
Symphyotrichum lateriflorum	Native					2	2
Taraxacum officinale	Introduced					1	1
Trifolium pratense	Introduced					1	1
Verbascum thapsus	Introduced					1	1
Viburnum dentatum	Introduced					1	1
Viburnum opulus	Introduced	Non-Restricted				2	2
Vitis riparia	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	10	26
Non-native Cover Subtotal	28	74
Total Cover Subtotal	38	100
Invasive Cover Subtotal	28	74
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	41
Non-native Cover Subtotal	26	59
Total Cover Subtotal	44	100
Invasive Cover Subtotal	5	11
Grand Total		
Native Cover Grand Total	**29**	**35**
Non-native Cover Grand Total	**54**	**65**
Total Cover Grand Total	**83**	**100**
Invasive Cover Grand Total	**33**	**40**

GMU-2B (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Achillea millefolium	Native					1	1
Agrostis gigantea	Introduced					3	3
Agrimonia gryposepala	Native					2	2
Bromus inermis	Introduced	Non-restricted				5	5
Cornus foemina	Native			35			35
Daucus carota	Introduced	Non-Restricted				1	1
Erigeron annuus	Native					2	2
Fraxinus pennsylvanica	Native		<1				<1
Fragaria virginiana	Native					1	1
Lonicera tatarica	Introduced	Restricted		20			20
Monarda fistulosa	Native					1	1
Parthenocissus quinquefolia	Native					2	2
Phalaris arundinacea	Introduced	Non-restricted				10	10
Poa pratensis	Introduced					7	7
Quercus macrocarpa	Native		<1				<1
Rhus glabra	Native			3			3
Rubus allegheniensis	Native			5			5
Salix humilis	Native			10			10
Symphyotrichum lateriflorum	Native					2	2
Viburnum dentatum	Introduced			2			2
Vitis aestivalis	Native				2		2
Vitis riparia	Native				6		6

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	<1	<1
Non-native Cover Subtotal	0	0
Total Cover Subtotal	<1	<1
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	53	71
Non-native Cover Subtotal	22	29
Total Cover Subtotal	75	100
Invasive Cover Subtotal	20	27
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	11	30
Non-native Cover Subtotal	26	70
Total Cover Subtotal	37	100
Invasive Cover Subtotal	10	27
Grand Total		
Native Cover Grand Total	**72**	**60**
Non-native Cover Grand Total	**48**	**40**
Total Cover Grand Total	**120**	**100**
Invasive Cover Grand Total	**30**	**25**

GMU-3A (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		70	5			75
Alliaria petiolata	Introduced	Restricted				2	2
Arctium minus	Introduced					1	1
Cirsium arvense	Introduced	Restricted				1	1
Cryptotaenia canadensis	Native					1	1
Geum canadense	Native					2	2
Glechoma hederacea	Introduced	Caution				1	1
Hemerocallis fulva	Introduced	Caution				1	1
Impatiens capensis	Native					1	1
Juglans nigra	Native		5				5
Leonurus cardiaca	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		40			40
Lysimachia nummularia	Introduced	Restricted				1	1
Morus alba	Introduced	Restricted	1				1
Onocelea sensibilis	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				6	6
Ranunculus hispidus	Native					1	1
Rhamnus cathartica	Introduced	Restricted		5			5
Sambucus canadensis	Native			2			2
Scrophularia marilandica	Native					1	1
Ulmus americana	Native		1				1
Urtica dioica	Native					1	1
Viola sororia	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	76	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	77	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	7	13
Non-native Cover Subtotal	45	87
Total Cover Subtotal	52	100
Invasive Cover Subtotal	45	87
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	9	39
Non-native Cover Subtotal	14	61
Total Cover Subtotal	23	100
Invasive Cover Subtotal	10	43
Grand Total		
Native Cover Grand Total	**92**	**61**
Non-native Cover Grand Total	**60**	**39**
Total Cover Grand Total	**152**	**100**
Invasive Cover Grand Total	**56**	**37**

GMU-3B (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		35				35
Alliaria petiolata	Introduced	Restricted				2	2
Anemone virginiana	Native					1	1
Arctium minus	Introduced					1	1
Barbarea vulgaris	Introduced					1	1
Carya ovata	Native		30	2			32
Carex pensylvanica	Native					2	2
Celtis occidentalis	Native					1	1
Elymus virginicus	Native					2	2
Floerkea proserpinacoides	Native					1	2
Fraxinus pennsylvanica	Native					1	1
Galium aparine	Native					1	1
Geum canadense	Native					2	2
Glechoma hederacea	Introduced	Caution				1	2
Hespiris matronalis	Introduced	Restricted				1	1
Impatiens capensis	Native					2	2
Juglans nigra	Native		4				4
Leonurus cardiaca	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		5			5
Parthenocissus quinquefolia	Native				5	20	25
Persicaria virginiana	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				15	15
Podophyllum peltatum	Native					1	1
Populus deltoides	Native		5			1	6
Potentilla simplex	Native					1	1
Prunus serotina	Native		25				25
Prunus virginiana	Native			<1			<1
Quercus alba	Native		1				1
Quercus macrocarpa	Native		2				2
Quercus rubra	Native		10				10
Ranunculus hispidus	Native					1	1
Rhamnus cathartica	Introduced	Restricted		4		3	7
Robinia pseudoacacia	Introduced	Restricted	5				5
Rubus occidentalis	Native			2			2
Sambucus canadensis	Native			5			5
Solidago canadensis	Native					1	1
Urtica dioica	Native					1	1
Viola sororia	Native					1	1
Vitis aestivalis	Native				1		1
Vitis riparia	Native				3		3

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	112	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	117	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	9	50
Non-native Cover Subtotal	9	50
Total Cover Subtotal	18	100
Invasive Cover Subtotal	9	50
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	41	63
Non-native Cover Subtotal	24	37
Total Cover Subtotal	65	100
Invasive Cover Subtotal	21	32
Grand Total		
Native Cover Grand Total	**171**	**82**
Non-native Cover Grand Total	**38**	**18**
Total Cover Grand Total	**209**	**100**
Invasive Cover Grand Total	**35**	**17**

ITMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native			5			5
Acer platanoides	Introduced	Caution	<1	1		<1	1
Allium canandense	Native					1	1
Allium tricoccum	Native					1	1
Anemone quinquefolia	Native					1	1
Anemone virginiana	Native					1	1
Barbarea vulgaris	Introduced					1	1
Betula papyrifera	Native		<1				<1
Carex pensylvanica	Native					3	3
Carya ovata	Native		7	1			8
Catalpa speciosa	Introduced			<1			<1
Celastrus orbiculatus	Introduced	Restricted			10		10
Celtis occidentalis	Native		15	5		3	23
Cercis canadensis	Introduced			<1			<1
Cornus foemina	Native			5			5
Elymus hystrix	Native					1	1
Elymus villosus	Native					1	1
Fraxinus pennsylvanica	Native			5			5
Galium aparine	Native					1	1
Geranium maculatum	Native					1	1
Geum canadense	Native					2	2
Hydrophyllum virginianum	Native					1	1
Juglans nigra	Native		20				20
Juniperus virginiana	Native		<1	<1			<1
Ligustrum vulgare	Introduced	Caution		<1			<1
Lonicera tatarica	Introduced	Restricted		5			5
Maianthemum racemosum	Native					1	1
Monarda fistulosa	Native					<1	<1
Morus alba	Introduced	Restricted	1				1
Parthenocissus quinquefolia	Native				`	15	15
Persicaria virginiana	Native					1	1
Picea abies	Introduced		<1				<1
Pinus resinosa	Native		1				1
Podophyllum peltatum	Native					2	2
Populus tremuloides	Native		<1				<1
Primula meadia	Native					1	1
Prunus serotina	Native		5	1			6
Quercus alba	Native		15				15
Quercus ellipsoidalis	Native		<1				<1
Quercus macrocarpa	Native		5				5
Quercus rubra	Native		20	1			21
Rhamnus cathartica	Introduced	Restricted		3		1	4
Rhus glabra	Native			<1			<1
Ribes americanum	Native			1			1
Rosa multiflora	Introduced	Restricted		<1			<1
Rubus allegheniensis	Native			1			1
Rubus occidentalis	Native			3			3
Sambucus canadensis	Native			2			2
Sanguinaria canadensis	Native					1	1
Scrophularia marilandica	Native					1	1
Smilax herbacea	Native				1		1
Tilia americana	Native		15	1			16
Trillium recurvatum	Native					1	1
Toxicodendron radicans	Native					1	1
Ulmus americana	Native			1			1
Uvularia grandiflora	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					1	1
Vitis aestivalis	Native				1		1
Vitis riparia	Native				5		5
Zanthoxylum americanum	Native			2			2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	103	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	104	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	34	76
Non-native Cover Subtotal	11	24
Total Cover Subtotal	45	100
Invasive Cover Subtotal	8	18
Vine		
Native Cover Subtotal	7	41
Non-native Cover Subtotal	10	59
Total Cover Subtotal	17	100
Invasive Cover Subtotal	10	59
Herb		
Native Cover Subtotal	43	96
Non-native Cover Subtotal	2	4
Total Cover Subtotal	45	100
Invasive Cover Subtotal	1	2
Grand Total		
Native Cover Grand Total	**187**	**89**
Non-native Cover Grand Total	**24**	**11**
Total Cover Grand Total	**211**	**100**
Invasive Cover Grand Total	**20**	**9**

ITMU-2 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1				1
Acer platanoides	Introduced	Caution		2			2
Acer saccharinum	Native		5				5
Agrimonia gryposepala	Native					1	1
Alliaria petiolata	Introduced	Restricted				<1	<1
Calamagrostis canadensis	Native					1	1
Carex blanda	Native					1	1
Carex stricta	Native					2	2
Celtis occidentalis	Native			2		1	3
Cornus sericea	Native			10			10
Crataegus mollis	Native			1			1
Erigeron annuus	Native					1	1
Fraxinus pennsylvanica	Native		10	5			15
Galium aparine	Native					1	1
Geum canadense	Native					2	2
Geum laciniatum	Native					1	1
Gleditsia triacanthos	Native		1				1
Hesperis matronalis	Introduced	Restricted				1	1
Impatiens capensis	Native					1	1
Juglans nigra	Native		5				5
Lactuca serriola	Introduced					<1	<1
Lonicera tatarica	Introduced	Restricted		10			10
Monarda fistulosa	Native					<1	<1
Morus alba	Introduced	Restricted		1		1	2
Parthenocissus quinquefolia	Native				2		2
Phalaris arundinacea	Introduced	Non-restricted				7	7
Poa pratensis	Introduced					1	1
Populus deltoides	Native		5				5
Prunus americana	Native			2			2
Prunus virginiana	Native			1			1
Quercus bicolor	Native		<1				<1
Rhamnus cathartica	Introduced	Restricted		5			5
Ribes americanum	Native			3			3
Robinia pseudoacacia	Introduced	Restricted		1			1
Rosa multiflora	Introduced	Restricted		1			1
Rubus occidentalis	Native			2			2
Salix alba f. cv. 'Vitellina'	Excluded		10				10
Salix interior	Native			1			1
Salix nigra	Native			1			1
Sambucus canadensis	Native			2			2
Scirpus atrovirens	Native					<1	<1
Symphyotrichum lateriflorum	Native					1	1
Taraxacum officinale	Introduced					1	1
Thuja occidentalis	Native		5				5
Viburnum lentago	Native			1			1
Viburnum opulus	Introduced	Non-Restricted		5			5
Viola sororia	Native					2	2
Vitis aestivalis	Native				2		2
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	32	76
Non-native Cover Subtotal	10	24
Total Cover Subtotal	42	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	31	55
Non-native Cover Subtotal	25	45
Total Cover Subtotal	56	100
Invasive Cover Subtotal	18	32
Vine		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	15	58
Non-native Cover Subtotal	11	42
Total Cover Subtotal	26	100
Invasive Cover Subtotal	9	35
Grand Total		
Native Cover Grand Total	**84**	**65**
Non-native Cover Grand Total	**46**	**35**
Total Cover Grand Total	**130**	**100**
Invasive Cover Grand Total	**27**	**21**

MMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native			1			1
Agrimonia gryposepala	Native					1	1
Alliaria petiolata	Introduced	Restricted				1	1
Allium canandense	Native					1	1
Anemone quinquefolia	Native					2	2
Betula papyrifera	Native		1				1
Carex pensylvanica	Native					2	2
Carya ovata	Native		50	25			75
Celtis occidentalis	Native		1			1	2
Cornus foemina	Native			5			5
Daucus carota	Introduced	Non-Restricted				1	1
Elaeagnus umbellata	Introduced	Restricted		1			1
Erythronium albidum	Native					20	20
Floerkea proserpinacoides	Native					1	1
Fraxinus pennsylvanica	Native					1	1
Galium aparine	Native					1	1
Geranium maculatum	Native					1	1
Geum canadense	Native					2	2
Hesperis matronalis	Introduced	Restricted				1	1
Lonicera tatarica	Introduced	Restricted		3			3
Parthenocissus quinquefolia	Native				10		10
Persicaria virginiana	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				2	2
Podophyllum peltatum	Native					5	5
Populus tremuloides	Native		1				1
Primula meadia	Native					1	1
Prunus serotina	Native		2	2			4
Prunus virginiana	Native			3			3
Quercus alba	Native		15				15
Quercus macrocarpa	Native		20	1			21
Quercus rubra	Native			1			1
Rhamnus cathartica	Introduced	Restricted		1		4	5
Ribes missouriense	Native			1			1
Robinia pseudoacacia	Introduced	Restricted				1	1
Rosa multiflora	Introduced	Restricted		1			1
Rubus allegheniensis	Native			5			5
Rubus occidentalis	Native			2			2
Sanguinaria canadensis	Native					1	1
Scrophularia marilandica	Native					1	1
Taraxacum officinale	Introduced					1	1
Toxicodendron radicans	Native				3		3
Urtica dioica	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	90	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	90	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	85
Non-native Cover Subtotal	8	15
Total Cover Subtotal	54	100
Invasive Cover Subtotal	6	11
Vine		
Native Cover Subtotal	15	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	15	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	44	80
Non-native Cover Subtotal	11	20
Total Cover Subtotal	55	100
Invasive Cover Subtotal	9	16
Grand Total		
Native Cover Grand Total	**195**	**91**
Non-native Cover Grand Total	**19**	**9**
Total Cover Grand Total	**214**	**100**
Invasive Cover Grand Total	**15**	**7**

MMU-2 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer ginnala	Introduced	Restricted				1	1
Achillea millefolium	Native					1	1
Agrimonia gryposepala	Native					<1	<1
Barbarea vulgaris	Introduced					1	1
Betula papyrifera	Native			1			1
Bromus inermis	Introduced	Non-Restricted				5	5
Carya ovata	Native					1	1
Cornus amomum	Native			5			5
Cornus foemina	Native			10			10
Daucus carota	Introduced	Non-Restricted				2	2
Elaeagnus umbellata	Introduced	Restricted		1			1
Erigeron annuus	Native					1	1
Juglans nigra	Native					1	1
Lactuca serriola	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		5			5
Monarda fistulosa	Native					1	1
Morus alba	Introduced	Restricted				1	1
Poa pratensis	Introduced					5	5
Prunus serotina	Native			1			1
Quercus alba	Native					1	1
Quercus macrocarpa	Native			2			2
Rhamnus cathartica	Introduced	Restricted		1			1
Rubus idaeus	Native					1	1
Rubus occidentalis	Native			1			1
Salix interior	Native			1			1
Smilax herbacea	Native					1	1
Symphyotrichum lateriflorum	Native					1	1
Taraxacum officinale	Introduced					1	1
Toxicodendron radicans	Native					1	1
Ulmus rubra	Native		3				3
Viola sororia	Native					<1	<1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	21	75
Non-native Cover Subtotal	7	25
Total Cover Subtotal	28	100
Invasive Cover Subtotal	7	25
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	10	37
Non-native Cover Subtotal	17	63
Total Cover Subtotal	27	100
Invasive Cover Subtotal	2	7
Grand Total		
Native Cover Grand Total	**36**	**60**
Non-native Cover Grand Total	**24**	**40**
Total Cover Grand Total	**60**	**100**
Invasive Cover Grand Total	**9**	**15**

MMU-3 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		3	1			4
Agrostis gigantea	Introduced					1	1
Arctium minus	Introduced					1	1
Calamagrostis canadensis	Native					3	3
Carex stricta	Native					5	5
Cornus amomum	Native			5			5
Cornus foemina	Native			5			5
Elaeagnus umbellata	Introduced	Restricted		<1			<1
Fragaria virginiana	Native					1	1
Fraxinus pennsylvanica	Native			<1			<1
Geum canadense	Native					1	1
Impatiens capensis	Native					1	1
Juglans nigra	Native		1				1
Lonicera tatarica	Introduced	Restricted		2			2
Morus alba	Introduced	Restricted	1				1
Parthenocissus quinquefolia	Native				1	1	2
Phalaris arundinacea	Introduced	Non-restricted				10	10
Populus deltoides	Native		8				8
Rhamnus cathartica	Introduced	Restricted		2		2	4
Rubus occidentalis	Native			2			2
Salix alba f. cv. 'Vitellina'	Excluded			<1			<1
Salix discolor	Native		2	6			8
Salix interior	Native			10			10
Salix nigra	Native		15				15
Sambucus canadensis	Native			1			1
Scirpus atrovirens	Native					1	1
Symphyotrichum lanceolatum	Native					2	2
Toxicodendron radicans	Native					1	1
Urtica dioica	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		2		2	4
Viola sororia	Native					1	1
Vitis riparia	Native				1		1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	29	97
Non-native Cover Subtotal	1	3
Total Cover Subtotal	30	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	30	83
Non-native Cover Subtotal	6	17
Total Cover Subtotal	36	100
Invasive Cover Subtotal	4	11
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	53
Non-native Cover Subtotal	16	47
Total Cover Subtotal	34	100
Invasive Cover Subtotal	12	35
Grand Total		
Native Cover Grand Total	**79**	**77**
Non-native Cover Grand Total	**23**	**23**
Total Cover Grand Total	**102**	**100**
Invasive Cover Grand Total	**17**	**17**

SMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native			1			1
Alliaria petiolata	Introduced	Restricted				1	1
Allium tricoccum	Native					3	3
Anemone quinquefolia	Native					2	2
Arctium minus	Introduced					<1	<1
Arisaema triphyllum	Native					<1	<1
Carduus nutans	Introduced	Restricted				<1	<1
Carex pensylvanica	Native					1	1
Carya cordiformis	Native		1				1
Carya ovata	Native		8				8
Celtis occidentalis	Native		25			1	26
Cirsium vulgare	Introduced					1	1
Crataegus mollis	Native			1			1
Fraxinus americana	Native		1				1
Fraxinus pennsylvanica	Native			2		1	3
Galium aparine	Native					1	1
Geranium maculatum	Native					5	5
Geum canadense	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Hackelia virginiana	Native					1	1
Hemerocallis fulva	Introduced	Caution				<1	<1
Ligustrum vulgare	Introduced	Caution		<1			<1
Lonicera reticulata	Native				2		2
Lonicera tatarica	Introduced	Restricted		5			5
Maianthemum racemosum	Native					1	1
Morus alba	Introduced	Restricted		1		<1	1
Parthenocissus quinquefolia	Native				1	10	11
Podophyllum peltatum	Native					8	8
Prunus serotina	Native		15				15
Quercus alba	Native		30				30
Quercus macrocarpa	Native		5				5
Rhamnus cathartica	Introduced	Restricted		7		5	12
Rhus glabra	Native			1			1
Rubus occidentalis	Native					1	1
Scrophularia marilandica	Native					<1	<1
Taraxacum officinale	Introduced					1	1
Tilia americana	Native		5				5
Torilis japonica	Introduced	Prohibited/Restricted				<1	<1
Toxicodendron radicans	Native					<1	<1
Trillium recurvatum	Native					<1	<1
Ulmus americana	Native		1				1
Ulmus rubra	Native		1				1
Verbascum thapsus	Introduced					1	1
Vitis aestivalis	Native				<1		<1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	92	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	92	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	28
Non-native Cover Subtotal	13	72
Total Cover Subtotal	18	100
Invasive Cover Subtotal	13	72
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	36	78
Non-native Cover Subtotal	10	22
Total Cover Subtotal	46	100
Invasive Cover Subtotal	6	13
Grand Total		
Native Cover Grand Total	**138**	**86**
Non-native Cover Grand Total	**23**	**14**
Total Cover Grand Total	**161**	**100**
Invasive Cover Grand Total	**19**	**12**

TMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1			<1	<1
Alliaria petiolata	Introduced	Restricted				<1	<1
Carya ovata	Native		4	1		2	7
Carex pensylvanica	Native					1	1
Celtis occidentalis	Native					1	1
Fraxinus americana	Native		2				2
Fraxinus pennsylvanica	Native			5		3	8
Geum canadense	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Hackelia virginiana	Native					<1	<1
Lonicera tatarica	Introduced	Restricted		10			10
Morus alba	Introduced	Restricted	8				8
Parthenocissus quinquefolia	Native					1	1
Pinus resinosa	Native		75				75
Prunus serotina	Native		15				15
Ranunculus abortivus	Native					<1	<1
Rhamnus cathartica	Introduced	Restricted	1	10		15	26
Rubus occidentalis	Native					<1	<1
Securigera varia	Introduced	Restricted				1	1
Smilax herbacea	Native					<1	<1
Taraxacum officinale	Introduced					1	1
Toxicodendron radicans	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		4		3	7
Vitis aestivalis	Native				5		5
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	97	92
Non-native Cover Subtotal	9	8
Total Cover Subtotal	106	100
Invasive Cover Subtotal	9	8
Sapling/Shrub		
Native Cover Subtotal	6	20
Non-native Cover Subtotal	24	80
Total Cover Subtotal	30	100
Invasive Cover Subtotal	20	67
Vine		
Native Cover Subtotal	7	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	10	32
Non-native Cover Subtotal	21	68
Total Cover Subtotal	31	100
Invasive Cover Subtotal	16	52
Grand Total		
Native Cover Grand Total	**120**	**69**
Non-native Cover Grand Total	**54**	**31**
Total Cover Grand Total	**174**	**100**
Invasive Cover Grand Total	**45**	**26**

TMU-2 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Anemone quinquefolia	Native					1	1
Arctium minus	Introduced					1	1
Bromus inermis	Introduced	Non-Restricted				15	15
Centaurea stoebe	Introduced	Restricted				<1	<1
Cirsium vulgare	Introduced					<1	<1
Daucus carota	Introduced	Non-Restricted				1	1
Erigeron annuus	Native					1	1
Fraxinus americana	Native		1				1
Geum canadense	Native					1	1
Hackelia virginiana	Native					<1	<1
Hesperis matronalis	Introduced	Restricted				1	1
Juglans nigra	Native		45	10			55
Juniperus virginiana	Native			1			1
Lonicera tatarica	Introduced	Restricted		3			3
Melilotus officinalis	Introduced	Non-Restricted				1	1
Monarda fistulosa	Native					2	2
Morus alba	Introduced	Restricted	2				2
Phalaris arundinacea	Introduced	Non-restricted				2	2
Poa pratensis	Introduced					30	30
Populus deltoides	Native		2				2
Quercus velutina	Native		1				1
Ranunculus abortivus	Native					<1	<1
Rhamnus cathartica	Introduced	Restricted		2			2
Rhus glabra	Native			20			20
Rubus occidentalis	Native			2			2
Sambucus canadensis	Native			1			1
Securigera varia	Introduced	Restricted				5	5
Taraxacum officinale	Introduced					1	1
Viola sororia	Native					1	1
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	49	96
Non-native Cover Subtotal	2	4
Total Cover Subtotal	51	100
Invasive Cover Subtotal	2	4
Sapling/Shrub		
Native Cover Subtotal	34	87
Non-native Cover Subtotal	5	13
Total Cover Subtotal	39	100
Invasive Cover Subtotal	5	13
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	6	10
Non-native Cover Subtotal	57	90
Total Cover Subtotal	63	100
Invasive Cover Subtotal	8	13
Grand Total		
Native Cover Grand Total	**94**	**59**
Non-native Cover Grand Total	**64**	**41**
Total Cover Grand Total	**158**	**100**
Invasive Cover Grand Total	**15**	**9**

UMU-1 (Emergent Marsh - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Agrostis gigantea	Introduced					2	2
Eleocharis erythropoda	Native					1	1
Equisetum arvense	Native					<1	<1
Geum canadense	Native					1	1
Lonicera tatarica	Introduced	Restricted		2			2
Phalaris arundinacea	Introduced	Non-restricted				25	25
Rubus allegheniensis	Native			1			1
Symphyotrichum lanceolatum	Native					3	3
Typha angustifolia	Introduced	Restricted				1	1
Urtica dioica	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	1	33
Non-native Cover Subtotal	2	67
Total Cover Subtotal	3	100
Invasive Cover Subtotal	2	67
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	6	18
Non-native Cover Subtotal	28	82
Total Cover Subtotal	34	100
Invasive Cover Subtotal	26	76
Grand Total		
Native Cover Grand Total	**7**	**19**
Non-native Cover Grand Total	**30**	**81**
Total Cover Grand Total	**37**	**100**
Invasive Cover Grand Total	**28**	**76**

UMU-1 (Hardwood Swamp -Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		5				5
Acer saccharinum	Native		3				3
Agrostis gigantea	Introduced					1	1
Agrimonia gryposepala	Native					3	3
Alliaria petiolata	Introduced	Restricted				1	1
Calamagrostis canadensis	Native					1	1
Carex pensylvanica	Native					<1	<1
Carex stricta	Native					1	1
Carya ovata	Native		10	2			12
Cornus foemina	Native			5			5
Daucus carota	Introduced	Non-Restricted				1	1
Equisetum arvense	Native					<1	<1
Erigeron annuus	Native					1	1
Fragaria virginiana	Native					1	1
Fraxinus pennsylvanica	Native			3			3
Galium aparine	Native					1	1
Geum canadense	Native					2	2
Glyceria striata	Native					1	1
Impatiens capensis	Native					1	1
Lonicera tatarica	Introduced	Restricted		2			2
Parthenocissus quinquefolia	Native				5		5
Phalaris arundinacea	Introduced	Non-restricted				20	20
Populus deltoides	Native		5				5
Quercus macrocarpa	Native		20				20
Rhamnus cathartica	Introduced	Restricted				1	1
Rosa multiflora	Introduced	Restricted		10			10
Rubus allegheniensis	Native			3			3
Salix bebbiana	Native			15			15
Salix interior	Native			5			5
Salix nigra	Native		10				10
Scirpus atrovirens	Native					1	1
Scirpus cyperinus	Native					2	2
Symphyotrichum lanceolatum	Native					1	1
Torilis japonica	Introduced	Prohibited/Restricted				2	2
Toxicodendron radicans	Native					1	1
Urtica dioica	Native					1	1
Vitis riparia	Native				7		7

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	53	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	53	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	33	73
Non-native Cover Subtotal	12	27
Total Cover Subtotal	45	100
Invasive Cover Subtotal	12	27
Vine		
Native Cover Subtotal	12	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	12	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	41
Non-native Cover Subtotal	26	59
Total Cover Subtotal	44	100
Invasive Cover Subtotal	24	55
Grand Total		
Native Cover Grand Total	**116**	**75**
Non-native Cover Grand Total	**38**	**25**
Total Cover Grand Total	**154**	**100**
Invasive Cover Grand Total	**36**	**23**

UMU-1 (Shrub-carr East - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Agrimonia gryposepala	Native					1	1
Barbarea vulgaris	Introduced					1	1
Carex lacustris	Native					1	1
Cirsium arvense	Introduced	Restricted				1	1
Cirsium vulgare	Introduced					1	1
Cornus amomum	Native			10			10
Cornus foemina	Native			2			2
Cornus sericea	Native			25			25
Elymus virginicus	Native					1	1
Erigeron strigosus	Native					1	1
Geum canadense	Native					2	2
Geum laciniatum	Native					1	1
Glyceria striata	Native					1	1
Impatiens capensis	Native					1	1
Juglans nigra	Native					2	2
Juncus dudleyi	Native					1	1
Lonicera tatarica	Introduced	Restricted		1			1
Malus pumila	Introduced		1				1
Onoclea sensibilis	Native					1	1
Parthenocissus quinquefolia	Native				1		1
Phalaris arundinacea	Introduced	Non-restricted				20	20
Quercus ellipsoidalis	Native		1				1
Rosa multiflora	Introduced	Restricted		5			5
Salix amygdaloides	Native			2			2
Salix bebbiana	Native			1			1
Salix discolor	Native			1			1
Salix interior	Native			5			5
Salix nigra	Native		5				5
Scirpus cyperinus	Native					1	1
Symphyotrichum lanceolatum	Native					1	1
Taraxacum officinale	Introduced					1	1
Toxicodendron radicans	Native					1	1
Urtica dioica	Native					1	1
Viola sororia	Native					1	1
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	88
Non-native Cover Subtotal	6	12
Total Cover Subtotal	52	100
Invasive Cover Subtotal	6	12
Vine		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	43
Non-native Cover Subtotal	24	57
Total Cover Subtotal	42	100
Invasive Cover Subtotal	21	50
Grand Total		
Native Cover Grand Total	**73**	**70**
Non-native Cover Grand Total	**31**	**30**
Total Cover Grand Total	**104**	**100**
Invasive Cover Grand Total	**27**	**26**

UMU-1 (Shrub-carr North - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		5				5
Achillea millefolium	Native					1	1
Agrimonia gryposepala	Native					2	2
Agrostis gigantea	Introduced					3	3
Arctium minus	Introduced					1	1
Carya ovata	Native		3				3
Cornus foemina	Native			10			10
Cornus sericea	Native			5			5
Daucus carota	Introduced	Non-Restricted				1	1
Erigeron annuus	Native					1	1
Fraxinus pennsylvanica	Native			5		2	7
Galium aparine	Native					1	1
Glechoma hederacea	Introduced	Caution				1	1
Hesperis matronalis	Introduced	Restricted				2	2
Juglans nigra	Native		5				5
Juniperus virginiana	Native		1				1
Lonicera tatarica	Introduced	Restricted		8			8
Monarda fistulosa	Native					1	1
Morus alba	Introduced	Restricted	1				1
Parthenocissus quinquefolia	Native				7	4	11
Phalaris arundinacea	Introduced	Non-restricted				15	15
Poa pratensis	Introduced					3	3
Populus deltoides	Native		10				10
Quercus macrocarpa	Native		5				5
Quercus rubra	Native		2				2
Rhamnus cathartica	Introduced	Restricted				2	2
Rosa multiflora	Introduced	Restricted		7			7
Rubus occidentalis	Native			3			3
Salix interior	Native			10			10
Salix nigra	Native		8				8
Symphyotrichum lanceolatum	Native					3	3
Taraxacum officinale	Introduced					1	1
Vitis riparia	Native				7		7

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	39	98
Non-native Cover Subtotal	1	3
Total Cover Subtotal	40	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	33	69
Non-native Cover Subtotal	15	31
Total Cover Subtotal	48	100
Invasive Cover Subtotal	15	31
Vine		
Native Cover Subtotal	14	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	14	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	15	34
Non-native Cover Subtotal	29	66
Total Cover Subtotal	44	100
Invasive Cover Subtotal	19	43
Grand Total		
Native Cover Grand Total	**101**	**69**
Non-native Cover Grand Total	**45**	**31**
Total Cover Grand Total	**146**	**100**
Invasive Cover Grand Total	**35**	**24**

UMU-1 (Wet Meadow North - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Calamagrostis canadensis	Native					1	1
Cirsium arvense	Introduced	Restricted				1	1
Cornus foemina	Native			2			2
Elaeagnus umbellata	Introduced	Restricted		1			1
Erigeron strigosus	Native					1	1
Fraxinus pennsylvanica	Native		1				1
Glechoma hederacea	Introduced	Caution				1	1
Juglans nigra	Native					2	2
Lonicera tatarica	Introduced	Restricted		4			4
Pastinaca sativa	Introduced	Restricted				1	1
Phalaris arundinacea	Introduced	Non-restricted				35	35
Rosa multiflora	Introduced	Restricted		2			2
Sambucus canadensis	Native			1			1
Scirpus cyperinus	Native					1	1
Solidago canadensis	Native					1	1
Typha latifolia	Native					1	1
Urtica dioica	Native					1	1
Viburnum lentago	Native			5			5
Vitis riparia	Native				2		2

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	8	53
Non-native Cover Subtotal	7	47
Total Cover Subtotal	15	100
Invasive Cover Subtotal	7	47
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	8	17
Non-native Cover Subtotal	38	83
Total Cover Subtotal	46	100
Invasive Cover Subtotal	37	80
Grand Total		
Native Cover Grand Total	**19**	**30**
Non-native Cover Grand Total	**45**	**70**
Total Cover Grand Total	**64**	**100**
Invasive Cover Grand Total	**44**	**69**

UMU-1 (Wet Meadow South - Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Cirsium arvense	Introduced	Restricted				1	1
Glyceria striata	Native					1	1
Impatiens capensis	Native					1	1
Phalaris arundinacea	Introduced	Non-restricted				50	50
Quercus macrocarpa	Native		2				2
Salix bebbiana	Native			5			5
Scirpus cyperinus	Native					1	1
Urtica dioica	Native					1	1
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	4	7
Non-native Cover Subtotal	51	93
Total Cover Subtotal	55	100
Invasive Cover Subtotal	51	93
Grand Total		
Native Cover Grand Total	**16**	**24**
Non-native Cover Grand Total	**51**	**76**
Total Cover Grand Total	**67**	**100**
Invasive Cover Grand Total	**51**	**76**

UMU-2 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1				1
Acer saccharinum	Native					1	1
Agrimonia gryposepala	Native					2	2
Agrostis gigantea	Introduced					1	1
Alliaria petiolata	Introduced	Restricted				1	1
Anemone quinquefolia	Native					2	2
Carex pensylvanica	Native					4	4
Carya ovata	Native		25				25
Cornus foemina	Native			5			5
Cornus sericea	Native			5			5
Crataegus mollis	Native			1			1
Fraxinus pennsylvanica	Native			1			1
Fragaria virginiana	Native					1	1
Geum canadense	Native					2	2
Hackelia virginiana	Native					<1	<1
Lonicera tatarica	Introduced	Restricted		2			2
Parthenocissus quinquefolia	Native				2		2
Phalaris arundinacea	Introduced	Non-restricted				2	2
Populus alba	Introduced	Restricted	1				1
Prunus serotina	Native			2			2
Quercus alba	Native		5				5
Quercus macrocarpa	Native		15				15
Quercus rubra	Native		10				10
Rhamnus cathartica	Introduced	Restricted		2		2	4
Ribes missouriense	Native			1			1
Rosa multiflora	Introduced	Restricted		10			10
Rubus allegheniensis	Native			2			2
Rubus occidentalis	Native			1			1
Symphyotrichum lateriflorum	Native					2	2
Taraxacum officinale	Introduced					<1	<1
Torilis japonica	Introduced	Prohibited/Restricted				2	2
Toxicodendron radicans	Native					2	2
Ulmus americana	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		3			3
Viola sororia	Native					1	1
Vitis riparia	Native				5		5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	56	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	57	100
Invasive Cover Subtotal	1	2
Sapling/Shrub		
Native Cover Subtotal	18	51
Non-native Cover Subtotal	17	49
Total Cover Subtotal	35	100
Invasive Cover Subtotal	14	40
Vine		
Native Cover Subtotal	7	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	69
Non-native Cover Subtotal	8	31
Total Cover Subtotal	26	100
Invasive Cover Subtotal	7	27
Grand Total		
Native Cover Grand Total	**99**	**79**
Non-native Cover Grand Total	**26**	**21**
Total Cover Grand Total	**125**	**100**
Invasive Cover Grand Total	**22**	**18**

UMU-3 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		10	5			15
Agrostis gigantea	Introduced					2	2
Agrimonia gryposepala	Native					1	1
Arctium minus	Introduced					<1	<1
Barbarea vulgaris	Introduced					<1	<1
Bromus inermis	Introduced	Non-Restricted				2	2
Dactylis glomerata	Introduced					2	2
Daucus carota	Introduced	Non-Restricted				1	1
Erigeron annuus	Native					1	1
Fraxinus pennsylvanica	Native			5			5
Geum canadense	Native					2	2
Glechoma hederacea	Introduced	Caution				<1	<1
Juglans nigra	Native		5	5			10
Lolium arundinaceum	Introduced					1	1
Lonicera tatarica	Introduced	Restricted		5			5
Malus pumila	Introduced		20				20
Pastinaca sativa	Introduced	Restricted				2	2
Phalaris arundinacea	Introduced	Non-restricted				30	30
Picea abies	Introduced		15				15
Pinus resinosa	Native		20				20
Plantago rugelii	Native					<1	<1
Poa pratensis	Introduced					2	2
Rosa multiflora	Introduced	Restricted		3			3
Rubus occidentalis	Native			15			15
Symphyotrichum lanceolatum	Native					2	2
Taraxacum officinale	Introduced					1	1
Torilis japonica	Introduced	Prohibited/Restricted				1	1
Viburnum opulus	Introduced	Non-Restricted		2			2
Viola sororia	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	35	50
Non-native Cover Subtotal	35	50
Total Cover Subtotal	70	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	30	75
Non-native Cover Subtotal	10	25
Total Cover Subtotal	40	100
Invasive Cover Subtotal	8	20
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	7	14
Non-native Cover Subtotal	44	86
Total Cover Subtotal	51	100
Invasive Cover Subtotal	33	65
Grand Total		
Native Cover Grand Total	**72**	**45**
Non-native Cover Grand Total	**89**	**55**
Total Cover Grand Total	**161**	**100**
Invasive Cover Grand Total	**41**	**25**

WMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Acer negundo	Native		1	2			3
Agrimonia gryposepala	Native					1	1
Alliaria petiolata	Introduced	Restricted				<1	<1
Allium tricoccum	Native					1	1
Anemone quinquefolia	Native					1	1
Arctium minus	Introduced					<1	<1
Carex blanda	Native					1	1
Carex pensylvanica	Native					2	2
Carya ovata	Native		1				1
Celtis occidentalis	Native		3				3
Centaurea stoebe	Introduced	Restricted				<1	<1
Cirsium vulgare	Introduced					<1	<1
Convallaria majalis	Introduced	Non-Restricted				<1	<1
Cornus amomum	Native			<1			<1
Fraxinus americana	Native		3				3
Fraxinus pennsylvanica	Native			5		5	10
Galium aparine	Native					1	1
Geranium maculatum	Native					<1	<1
Geum canadense	Native					1	1
Glechoma hederacea	Introduced	Caution				<1	<1
Hackelia virginiana	Native					<1	<1
Hesperis matronalis	Introduced	Restricted				1	1
Juglans nigra	Native		10				10
Juniperus virginiana	Native		1				1
Lonicera reticulata	Native				1		1
Lonicera tatarica	Introduced	Restricted		7			7
Maianthemum racemosum	Native					1	1
Melilotus officinalis	Introduced	Non-Restricted				1	1
Monarda fistulosa	Native					<1	<1
Morus alba	Introduced	Restricted	2			<1	2
Parthenocissus quinquefolia	Native					5	5
Poa pratensis	Introduced					1	1
Podophyllum peltatum	Native					3	3
Populus deltoides	Native		5				5
Populus grandidentata	Native			<1			<1
Prunus serotina	Native		40			2	42
Quercus alba	Native		30				30
Quercus macrocarpa	Native		5				5
Quercus velutina	Native		8	1			9
Ranunculus abortivus	Native					<1	<1
Rhamnus cathartica	Introduced	Restricted	3	20		8	31
Rhus glabra	Native			10			10
Ribes americanum	Native			1			1
Rubus occidentalis	Native			1			1
Sambucus canadensis	Native			1			1
Symphyotrichum lateriflorum	Native					1	1
Taraxacum officinale	Introduced					1	1
Tilia americana	Native		1				1
Toxicodendron radicans	Native					1	1
Viburnum opulus	Introduced	Non-Restricted		3		2	5
Viola sororia	Native					1	1
Vitis aestivalis	Native				5		5
Vitis riparia	Native				2		2
Zanthoxylum americanum	Native			5			5

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	108	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	113	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	26	46
Non-native Cover Subtotal	30	54
Total Cover Subtotal	56	100
Invasive Cover Subtotal	27	48
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	27	66
Non-native Cover Subtotal	14	34
Total Cover Subtotal	41	100
Invasive Cover Subtotal	9	22
Grand Total		
Native Cover Grand Total	**169**	**78**
Non-native Cover Grand Total	**49**	**22**
Total Cover Grand Total	**218**	**100**
Invasive Cover Grand Total	**41**	**19**

YMU-1 (Spring 2023)			Absolute % Cover				
Species	**Native/Introduced**	**Invasive Status**	**Tree**	**Sapling/Shrub**	**Vine**	**Herb**	**Total**
Arctium minus	Introduced					1	1
Carex lacustris	Native					<1	<1
Cirsium vulgare	Introduced					<1	<1
Cornus amomum	Native			5			5
Cornus sericea	Native			7			7
Fraxinus pennsylvanica	Native			6			6
Geum canadense	Native					2	2
Impatiens capensis	Native					<1	<1
Juglans nigra	Native		1				1
Juniperus virginiana	Native			<1			<1
Leonurus cardiaca	Introduced					<1	<1
Lonicera tatarica	Introduced	Restricted		8			8
Phalaris arundinacea	Introduced	Non-restricted				35	35
Populus deltoides	Native		60				60
Rhamnus cathartica	Introduced	Restricted		7		3	10
Ribes americanum	Native			2			2
Rubus occidentalis	Native			1			1
Salix discolor	Native			10			10
Salix nigra	Native		2	5			7
Sambucus canadensis	Native			3			3
Symphyotrichum lanceolatum	Native					1	1
Taraxacum officinale	Introduced					2	2
Vitis riparia	Native				4		4
Zizea aurea	Native					1	1

	Total % Cover	
Summarized	**Absolute Cover**	**Relative Cover**
Tree		
Native Cover Subtotal	63	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	63	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	39	72
Non-native Cover Subtotal	15	28
Total Cover Subtotal	54	100
Invasive Cover Subtotal	15	28
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	4	9
Non-native Cover Subtotal	41	91
Total Cover Subtotal	45	100
Invasive Cover Subtotal	38	84
Grand Total		
Native Cover Grand Total	**110**	**66**
Non-native Cover Grand Total	**56**	**34**
Total Cover Grand Total	**166**	**100**
Invasive Cover Grand Total	**53**	**32**

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Babcock Conservancy Summer 2022	PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	BMU-1 Southern Mesic Forest	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
11	9	2	4%	3%	14.3	14.1	4.8	4.7	13.0	15.4	3.9	4.6	4.7	8.0	3.7	0.0
													130%	1%	18%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARU	75	*Acer saccharum*	*hard maple, sugar maple*	5	FACU	Native	tree	perennial	0	0	*Acer saccharum*
ARITRI	4	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
CELOCC	27	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRCAN	2	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CONMAJ	3	*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
FRAPEN	2	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
MAIRAC	7	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
PODPEL	2	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
PRUSER	1	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
TILAME	25	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
VIBOPU	1	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Babcock Conservancy Summer 2022	PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	BMU-2 Southern Hardwood Swamp & Emergent Marsh	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
78	59	19	101%	51%	28.9	25.1	3.8	3.3	25.1	15.0	2.8	1.7	2.6	2.3	1.4	3.0
													33%	16%	150%	1%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	9	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACOAME	1	*Acorus americanus*	*sweet-flag*	7	OBL	Native	herb	perennial	0	0	*Acorus americanus*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AMBTRI	1	*Ambrosia trifida*	*giant ragweed, great ragweed, horse-cc*	0	FAC	Native	herb	annual	0	0	*Ambrosia trifida*
APOCAN	1	*Apocynum cannabinum*	*hemp-dogbane, Indian hemp*	3	FAC	Native	herb	perennial	0	0	*Apocynum cannabinum*
ARCLAP	1	*Arctium lappa*	*great burdock*	0	0	Introduced	herb	biennial	0	0	*Arctium lappa*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
BIDFRO	1	*Bidens frondosa*	*common beggar-ticks, devil's beggar-tic*	1	FACW	Native	herb	annual	0	0	*Bidens frondosa*
CARBEB	1	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARDEB	1	*Carex debilis*	*weak sedge, white-edge sedge*	5	FACW	Native	herb	perennial	0	0	*Carex debilis*
CARLAC	1	*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CATSPE	1	*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELOCC	3	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CICBUL	1	*Cicuta bulbifera*	*bulblet water-hemlock*	7	OBL	Native	herb	perennial	0	0	*Cicuta bulbifera*
CICMAC	1	*Cicuta maculata*	*common water-hemlock, spotted water*	6	OBL	Native	herb	perennial	0	0	*Cicuta maculata*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CIRCAN	1	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRDIS	1	*Cirsium discolor*	*field thistle, pasture thistle, prairie thist*	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	*Cirsium discolor*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
COMCOM	1	*Commelina communis*	*Asiatic dayflower, common dayflower*	0	FACU/FAC	Introduced	herb	annual	0	0	*Commelina communis*
CONMAJ	1	*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
CORAMO	1	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELEPAL	1	*Eleocharis palustris*	*common spike-rush*	6	OBL	Native	herb	perennial	0	0	*Eleocharis palustris*
EREHIE	1	*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUPPER	2	*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
FRAAME	1	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	3	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALTRIFI	1	*Galium trifidum*	*northern three-lobed bedstraw, small be*	6	FACW	Native	herb	perennial	0	0	*Galium trifidum*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLYSTR	1	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
HEMFUL	2	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
IMPCAP	5	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEEORY	2	*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYSCIL	1	*Lysimachia ciliata*	*fringed loosestrife*	5	FACW	Native	herb	perennial	0	0	*Lysimachia ciliata*
LYTSAL	1	*Lythrum salicaria*	*purple loosestrife, spiked loosestrife*	0	OBL	Introduced	herb	perennial	0	Restricted	*Lythrum salicaria*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MENARVVCA N	1	*Mentha canadensis*	*field mint, wild mint*	3	FACW	Native	herb	perennial	0	0	*Mentha arvensis*
MIMRIN	2	*Mimulus ringens*	*Allegheny monkey-flower, monkey-flow*	6	OBL	Native	herb	perennial	0	0	*Mimulus ringens*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERAMP	5	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERHYD	5	*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*
PERLAP	1	*Persicaria lapathifolia*	*curly-top knotweed, dock-leaved smartw*	2	FACW	Native	herb	annual	0	0	*Persicaria lapathifolia*
PERMAC	5	*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PHAARU	5	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PILPUM	5	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEBIC	1	*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
RANREC	1	*Ranunculus recurvatus*	*blisterwort, hooked buttercup*	5	FACW	Native	herb	perennial	0	0	*Ranunculus recurvatus*
RANSCE	1	*Ranunculus sceleratus*	*celery-leaf buttercup, cursed crowfoot*	3	OBL	Native	herb	annual/perei	0	0	*Ranunculus sceleratus*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	4	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
SAGLAT	1	*Sagittaria latifolia*	*broad-leaved arrowhead*	3	OBL	Native	aquatic	perennial	0	0	*Sagittaria latifolia*
SALBEB	1	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALNIG	1	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SANODO	1	*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCHTAB	2	*Schoenoplectus tabernaemontani*	*great bulrush, soft-stem bulrush*	4	OBL	Native	herb	perennial	0	0	*Schoenoplectus tabernaemontani*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLDUL	3	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TILAME	3	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TYPANG	60	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	3	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Babcock Conservancy Summer 2022	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
82	63	19			30.4		3.8		26.6		2.9					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARU		*Acer saccharum*	*hard maple, sugar maple*	5	FACU	Native	tree	perennial	0	0	*Acer saccharum*
ACOAME		*Acorus americanus*	*sweet-flag*	7	OBL	Native	herb	perennial	0	0	*Acorus americanus*
AGEALT		*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRPAR		*Agrimonia parviflora*	*harvest-lice, southern agrimony, swamp*	4	FACW/FAC	Native	herb	perennial	Special concern	0	*Agrimonia parviflora*
AMBTRI		*Ambrosia trifida*	*giant ragweed, great ragweed, horse-cc*	0	FAC	Native	herb	annual	0	0	*Ambrosia trifida*
APOCAN		*Apocynum cannabinum*	*hemp-dogbane, Indian hemp*	3	FAC	Native	herb	perennial	0	0	*Apocynum cannabinum*
ARCLAP		*Arctium lappa*	*great burdock*	0	0	Introduced	herb	biennial	0	0	*Arctium lappa*
ARITRI		*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
ASCINC		*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
BIDFRO		*Bidens frondosa*	*common beggar-ticks, devil's beggar-tic*	1	FACW	Native	herb	annual	0	0	*Bidens frondosa*
CARBEB		*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARDEB		*Carex debilis*	*weak sedge, white-edge sedge*	5	FACW	Native	herb	perennial	0	0	*Carex debilis*
CARLAC		*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CATSPE		*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CICBUL		*Cicuta bulbifera*	*bulblet water-hemlock*	7	OBL	Native	herb	perennial	0	0	*Cicuta bulbifera*
CICMAC		*Cicuta maculata*	*common water-hemlock, spotted water*	6	OBL	Native	herb	perennial	0	0	*Cicuta maculata*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN		*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRDIS		*Cirsium discolor*	*field thistle, pasture thistle, prairie thist*	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	*Cirsium discolor*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
COMCOM		*Commelina communis*	*Asiatic dayflower, common dayflower*	0	FACU/FAC	Introduced	herb	annual	0	0	*Commelina communis*
CONMAJ		*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
CORAMO		*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELEPAL		*Eleocharis palustris*	*common spike-rush*	6	OBL	Native	herb	perennial	0	0	*Eleocharis palustris*
EREHIE		*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUPPER		*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
FRAAME		*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALTRIFI		*Galium trifidum*	*northern three-lobed bedstraw, small be*	6	FACW	Native	herb	perennial	0	0	*Galium trifidum*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLYSTR		*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
HEMFUL		*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEEORY		*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME		*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYSCIL		*Lysimachia ciliata*	*fringed loosestrife*	5	FACW	Native	herb	perennial	0	0	*Lysimachia ciliata*
LYTSAL		*Lythrum salicaria*	*purple loosestrife, spiked loosestrife*	0	OBL	Introduced	herb	perennial	0	Restricted	*Lythrum salicaria*
MAIRAC		*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MENARVCA N		*Mentha canadensis*	*field mint, wild mint*	3	FACW	Native	herb	perennial	0	0	*Mentha arvensis*
MIMRIN		*Mimulus ringens*	*Allegheny monkey-flower, monkey-flow*	6	OBL	Native	herb	perennial	0	0	*Mimulus ringens*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT		*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERAMP		*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERHYD		*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*
PERLAP		*Persicaria lapathifolia*	*curly-top knotweed, dock-leaved smart*	2	FACW	Native	herb	annual	0	0	*Persicaria lapathifolia*
PERMAC		*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*

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PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PILPUM		*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEBIC		*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
RANREC		*Ranunculus recurvatus*	*blisterwort, hooked buttercup*	5	FACW	Native	herb	perennial	0	0	*Ranunculus recurvatus*
RANSCE		*Ranunculus sceleratus*	*celery-leaf buttercup, cursed crowfoot*	3	OBL	Native	herb	annual/perei	0	0	*Ranunculus sceleratus*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME		*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
SAGLAT		*Sagittaria latifolia*	*broad-leaved arrowhead*	3	OBL	Native	aquatic	perennial	0	0	*Sagittaria latifolia*
SALBEB		*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SANODO		*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCHTAB		*Schoenoplectus tabernaemontani*	*great bulrush, soft-stem bulrush*	4	OBL	Native	herb	perennial	0	0	*Schoenoplectus tabernaemontani*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLDUL		*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TILAME		*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP		*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS		*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Emergent Marsh
ASSESSMENT AREA NAME:	GMU-1A Emergent Marsh (South)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
22	16	6	80%	66%	17.0	11.6	4.3	2.9	14.5	4.7	3.1	1.0	0.0	0.0	1.0	0.0
													0%	2%	120%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARSTR	1	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
EUPPER	1	*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
EUTMAC	3	*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FILRUB	1	*Filipendula rubra*	*queen-of-the-prairie*	0	OBL/FACW	Introduced	herb	perennial	0	0	*Filipendula rubra*
HEMFUL	1	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
IRIVIR	1	*Iris virginica*	*southern blue flag, Virginia iris*	5	OBL	Native	herb	perennial	0	0	*Iris virginica*
LEEORY	2	*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
ONOSEN	1	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
PERAMP	1	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERSAG	1	*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PHAARU	35	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PILPUM	1	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
POAPAL	1	*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
RUMVER	1	*Rumex verticillatus*	*swamp dock, water dock*	6	OBL	Native	herb	perennial	0	0	*Rumex verticillatus*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SOLDUL	1	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SYMFIR	5	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
TYPANG	40	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT	20	*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1A Southern Hardwood Swamp	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
39	32	7	69%	37%	16.8	14.9	3.0	2.6	15.2	10.4	2.4	1.7	2.3	0.7	1.5	0.0
													63%	22%	101%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	30	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL	2	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	5	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ANDGER	1	*Andropogon gerardii*	*big blue-stem, turkey-foot*	4	FAC/FACU	Native	herb	perennial	0	0	*Andropogon gerardii*
APOCAN	1	*Apocynum cannabinum*	*hemp-dogbane, Indian hemp*	3	FAC	Native	herb	perennial	0	0	*Apocynum cannabinum*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
CARBEB	1	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARPEL	2	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARVUL	3	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRARV	2	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CORRAC	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	1	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
EQUARV	2	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUTMAC	1	*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
HELGRO	3	*Helianthus grosseserratus*	*saw-tooth sunflower*	2	FACW	Native	herb	perennial	0	0	*Helianthus grosseserratus*
JUNDUD	3	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LILMIC	1	*Lilium michiganense*	*Michigan lily, Turk's-cap lily*	6	FACW	Native	herb	perennial	0	0	*Lilium michiganense*
LONTAT	10	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
MALPUM	1	*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
MONFIS	2	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PHAARU	45	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	15	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PYCVIR	5	*Pycnanthemum virginianum*	*common mountain mint, Virginia mouni*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
RHACAT	3	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROSMUL	3	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
SALDIS	6	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT	2	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	10	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SCIATR	2	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLCAN	4	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	4	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
STAPAL	1	*Stachys palustris*	*hedge-nettle, marsh hedge-nettle, wour*	5	OBL	Native	herb	perennial	0	0	*Stachys palustris*
SYMFIR	2	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Wet Meadow & Wet-mesic Prairie
ASSESSMENT AREA NAME:	GMU-1A Wet Meadow	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
63	50	13	65%	41%	22.5	27.4	3.2	3.9	20.0	18.2	2.5	2.3	3.0	0.6	2.8	0.0
													3%	36%	120%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AMBART	1	*Ambrosia artemisiifolia*	*annual bur-sage, common ragweed, shc*	0	FACU	Native	herb	annual	0	0	*Ambrosia artemisiifolia*
ANDGER	1	*Andropogon gerardii*	*big blue-stem, turkey-foot*	4	FAC/FACU	Native	herb	perennial	0	0	*Andropogon gerardii*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BROINE	1	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CALCAN	1	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARCRI1	1	*Carex cristatella*	*crested oval sedge, crested sedge*	4	FACW	Native	herb	perennial	0	0	*Carex cristatella*
CARMOL	1	*Carex molesta*	*field oval sedge, troublesome sedge*	2	FAC	Native	herb	perennial	0	0	*Carex molesta*
CARPEL	5	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARROSE	1	*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARSTR	20	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CARVUL	1	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRCAN	1	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CONCAN	1	*Conyza canadensis*	*Canadian horseweed, fleabane, hogwee*	0	FACU	Native	herb	0	0	0	*Conyza canadensis*
CORRAC	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	2	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
EQUARV	1	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
EREHIE	1	*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
EUPPER	1	*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
EUTMAC	1	*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GENALB	1	*Gentiana alba*	*cream gentian, pale gentian, yellow gen*	7	FACU	Native	herb	perennial	0	0	*Gentiana alba*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HELGRO	6	*Helianthus grosseserratus*	*saw-tooth sunflower*	2	FACW	Native	herb	perennial	0	0	*Helianthus grosseserratus*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LILMIC	1	*Lilium michiganense*	*Michigan lily, Turk's-cap lily*	6	FACW	Native	herb	perennial	0	0	*Lilium michiganense*
LONTAT	20	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYSNUM	1	*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MEDLUP	1	*Medicago lupulina*	*black medick*	0	FACU	Introduced	herb	annual/bienr	0	0	*Medicago lupulina*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MUHMEX	1	*Muhlenbergia mexicana*	*leafy satin grass, Mexican muhly, wire-s*	4	FACW	Native	herb	perennial	0	0	*Muhlenbergia mexicana*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PHAARU	30	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPAL	1	*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL	1	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL	1	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUVUL	1	*Prunella vulgaris*	*heal-all, lawn prunella, self-heal*	1	FAC	Native	herb	perennial	0	0	*Prunella vulgaris*
PYCVIR	2	*Pycnanthemum virginianum*	*common mountain mint, Virginia mouni*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	1	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SOLCAN	2	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	4	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SPAPEC	2	*Spartina pectinata*	*prairie cord grass, slough grass*	5	FACW	Native	herb	perennial	0	0	*Spartina pectinata*
SYMFIR	1	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VERHAS	5	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/per	0	0	*Verbena hastata*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Emergent Marsh & Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1B Emergent Marsh & Southern Hardwood Swamp (North)	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
37	31	6	57%	50%	16.2	16.4	2.9	2.9	14.8	9.0	2.4	1.5	2.3	2.8	1.4	0.0
													9%	4%	102%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	1	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ALISUB	3	*Alisma subcordatum*	*American water-plantain, common wat*	3	OBL	Native	herb	perennial	0	0	*Alisma subcordatum*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
BIDCER	1	*Bidens cernua*	*nodding beggar-ticks, nodding bur-mari*	4	OBL	Native	herb	annual	0	0	*Bidens cernua*
CALSEP	1	*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARBEB	2	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARSTR	4	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CIRARV	3	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
ECHCRU	1	*Echinochloa crus-galli*	*barnyard grass, large barnyard grass*	0	FACW/FAC	Introduced	herb	annual	0	0	*Echinochloa crus-galli*
ECHLOB	1	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELEOBT	2	*Eleocharis obtusa*	*blunt spike-rush*	3	OBL	Native	herb	annual/perei	0	0	*Eleocharis obtusa*
EREHIE	1	*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
IMPCAP	3	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
IRIVIR	1	*Iris virginica*	*southern blue flag, Virginia iris*	5	OBL	Native	herb	perennial	0	0	*Iris virginica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEEORY	2	*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
PERAMP	4	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERHYD	2	*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*
PHAARU	40	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PILPUM	2	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
POPDEL	2	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
ROBPSE	1	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALDIS	1	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALNIG	2	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	3	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCHTAB	1	*Schoenoplectus tabernaemontani*	*great bulrush, soft-stem bulrush*	4	OBL	Native	herb	perennial	0	0	*Schoenoplectus tabernaemontani*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLCAN	4	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
STAPAL	1	*Stachys palustris*	*hedge-nettle, marsh hedge-nettle, wour*	5	OBL	Native	herb	perennial	0	0	*Stachys palustris*
TYPANG	10	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT	5	*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
URTDIO	2	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/per	0	0	*Verbena hastata*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2A Mesic Prairie	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
60	36	24	51%	43%	16.0	12.2	2.7	2.0	12.4	10.0	1.6	1.3	4.2	1.0	1.3	0.0
													6%	44%	69%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ABUTHE	1	*Abutilon theophrasti*	*piemarker, velvet-leaf*	0	FACU	Introduced	herb	annual	0	0	*Abutilon theophrasti*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AMBART	1	*Ambrosia artemisiifolia*	*annual bur-sage, common ragweed, sho*	0	FACU	Native	herb	annual	0	0	*Ambrosia artemisiifolia*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/pere	0	0	*Barbarea vulgaris*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARMOL	1	*Carex molesta*	*field oval sedge, troublesome sedge*	2	FAC	Native	herb	perennial	0	0	*Carex molesta*
CARTENE	1	*Carex tenera*	*marsh straw sedge, narrow-leaved oval*	4	FACW/FAC	Native	herb	perennial	0	0	*Carex tenera*
CIRCAN	1	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CORRAC	10	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DACGLO	1	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
EQUARV	1	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
ERISTR	1	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough f*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FESRUB	1	*Festuca rubra*	*red fescue*	0	FACU	Introduced	herb	perennial	0	0	*Festuca rubra*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HYPPER	1	*Hypericum perforatum*	*common St. John's-wort, Klamath-weed*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Hypericum perforatum*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LONTAT	20	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MEDLUP	1	*Medicago lupulina*	*black medick*	0	FACU	Introduced	herb	annual/bienr	0	0	*Medicago lupulina*
MELALB	1	*Melilotus albus*	*white sweet-clover*	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus albus*
MONFIS	2	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
ONOSEN	1	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERMAC	1	*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PERVIR	1	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU	2	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PLAMAJ	1	*Plantago major*	*broad-leaved plantain, common plantai*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Plantago major*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PRUSER	1	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVUL	1	*Prunella vulgaris*	*heal-all, lawn prunella, self-heal*	1	FAC	Native	herb	perennial	0	0	*Prunella vulgaris*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUEELL	1	*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
RANABO	1	*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/pere	0	0	*Ranunculus abortivus*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROSMUL	3	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	2	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUMCRI	1	*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
SILLAT	1	*Silene latifolia*	*bladder campion, white campion, white*	0	0	Introduced	herb	0	0	0	*Silene latifolia*
SOLDUL	1	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLCAN	20	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	2	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
SYMNOV	1	*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SYMPIL	1	*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
VERTHA	1	*Verbascum thapsus*	*common mullein, flannel plant, giant m*	0	UPL	Introduced	herb	biennial	0	0	*Verbascum thapsus*
VERURT	1	*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBDEN	1	*Viburnum dentatum*	*southern arrow-wood*	0	FAC	Introduced	shrub	perennial	0	0	*Viburnum dentatum*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITRIP	1	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Shrub-invaded Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2B Invaded Mesic Prairie	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
33	27	6	39%	17%	15.6	13.9	3.0	2.7	14.1	12.8	2.5	2.2	4.5	1.9	2.3	0.0
													6%	75%	146%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	15	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	5	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
APOCAN	1	*Apocynum cannabinum*	*hemp-dogbane, Indian hemp*	3	FAC	Native	herb	perennial	0	0	*Apocynum cannabinum*
CARMOL	5	*Carex molesta*	*field oval sedge, troublesome sedge*	2	FAC	Native	herb	perennial	0	0	*Carex molesta*
CARVUL	4	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CORRAC	35	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	2	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GEUALE	3	*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
HELGRO	10	*Helianthus grosseserratus*	*saw-tooth sunflower*	2	FACW	Native	herb	perennial	0	0	*Helianthus grosseserratus*
JUNDUD	5	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LONTAT	20	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	2	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
MONFIS	4	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PHAARU	1	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA	10	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PRUVUL	2	*Prunella vulgaris*	*heal-all, lawn prunella, self-heal*	1	FAC	Native	herb	perennial	0	0	*Prunella vulgaris*
PYCVIR	15	*Pycnanthemum virginianum*	*common mountain mint, Virginia moun*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
QUEMAC	1	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHUGLA	3	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBALL	5	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SALHUM	10	*Salix humilis*	*prairie willow, upland willow*	6	FACU	Native	shrub	perennial	0	0	*Salix humilis*
SCIATR	2	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLCAN	25	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	20	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SYMFIR	2	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMNOV	5	*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
VIBDEN	2	*Viburnum dentatum*	*southern arrow-wood*	0	FAC	Introduced	shrub	perennial	0	0	*Viburnum dentatum*
VITAES	2	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	6	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3A Southern Mesic Forest (South)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
33	22	11	80%	42%	12.6	5.2	2.7	1.1	10.3	3.7	1.8	0.6	0.7	0.1	0.9	0.0
													92%	47%	53%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	75	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
ALLPET	25	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN	2	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CRYCAN	1	*Cryptotaenia canadensis*	*Canadian honewort, white chervil*	4	FAC	Native	herb	perennial	0	0	*Cryptotaenia canadensis*
ECHLOB	1	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HEMFUL	2	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
JUGNIG	5	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT	40	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MATSTR	1	*Matteuccia struthiopteris*	*American ostrich fern, ostrich fern*	5	FACW/FAC	Native	herb	perennial	0	0	*Matteuccia struthiopteris*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	10	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PENSED	1	*Penthorum sedoides*	*ditch stonecrop*	3	OBL	Native	herb	perennial	0	0	*Penthorum sedoides*
PERHYD	1	*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*
PERSAG	1	*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PHAARU	2	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHYALK	1	*Physalis alkekengi*	*Chinese lantern-plant, strawberry grour*	0	0	Introduced	herb	perennial	0	0	*Physalis alkekengi*
PHYAME	1	*Phytolacca americana*	*American pokeberry, pokeweed*	1	FACU	Native	herb	perennial	0	0	*Phytolacca americana*
PILPUM	2	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
PODPEL	1	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
SAMCAN	2	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANODO	1	*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3B Southern Mesic Forest (North)	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
37	28	9	29%	12%	15.9	14.9	3.0	2.8	13.8	15.1	2.3	2.5	3.1	1.0	1.6	0.0
													149%	19%	74%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	35	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT	25	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	2	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CARBLA	2	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CAROVAT	32	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN	2	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CELOCC	1	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN	5	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
DUCIND	2	*Duchesnea indica*	*false strawberry, Indian strawberry*	0	FACU	Introduced	herb	perennial	0	0	*Duchesnea indica*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	2	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	4	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	10	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
IMPCAP	2	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
JUGNIG	4	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MATSTR	1	*Matteuccia struthiopteris*	*American ostrich fern, ostrich fern*	5	FACW/FAC	Native	herb	perennial	0	0	*Matteuccia struthiopteris*
OXASTR	2	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	25	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	5	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PILPUM	3	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
POPDEL	6	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER	25	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR	1	*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB	1	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	10	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	7	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROBPSE	5	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	5	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	3	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Summer 2022	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons and John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
152	109	43			34.3		3.3		29.0		2.4					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ABUTHE		*Abutilon theophrasti*	*piemarker, velvet-leaf*	0	FACU	Introduced	herb	annual	0	0	*Abutilon theophrasti*
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI		*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGEALT		*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALISUB		*Alisma subcordatum*	*American water-plantain, common wat*	3	OBL	Native	herb	perennial	0	0	*Alisma subcordatum*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
AMBART		*Ambrosia artemisiifolia*	*annual bur-sage, common ragweed, sh*	0	FACU	Native	herb	annual	0	0	*Ambrosia artemisiifolia*
ANDGER		*Andropogon gerardii*	*big blue-stem, turkey-foot*	4	FAC/FACU	Native	herb	perennial	0	0	*Andropogon gerardii*
APOCAN		*Apocynum cannabinum*	*hemp-dogbane, Indian hemp*	3	FAC	Native	herb	perennial	0	0	*Apocynum cannabinum*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ASCINC		*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR		*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BARVUL		*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*

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BIDCER		*Bidens cernua*	*nodding beggar-ticks, nodding bur-mari*	4	OBL	Native	herb	annual	0	0	*Bidens cernua*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CALSEP		*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARBEB		*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARBLA		*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARCRI1		*Carex cristatella*	*crested oval sedge, crested sedge*	4	FACW	Native	herb	perennial	0	0	*Carex cristatella*
CARMOL		*Carex molesta*	*field oval sedge, troublesome sedge*	2	FAC	Native	herb	perennial	0	0	*Carex molesta*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEL		*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARROSE		*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CARTENE		*Carex tenera*	*marsh straw sedge, narrow-leaved oval*	4	FACW/FAC	Native	herb	perennial	0	0	*Carex tenera*
CARVUL		*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN		*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CONCAN		*Conyza canadensis*	*Canadian horseweed, fleabane, hogwee*	0	FACU	Native	herb	0	0	0	*Conyza canadensis*
CORRAC		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER		*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRYCAN		*Cryptotaenia canadensis*	*Canadian honewort, white chervil*	4	FAC	Native	herb	perennial	0	0	*Cryptotaenia canadensis*
DACGLO		*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
DUCIND		*Duchesnea indica*	*false strawberry, Indian strawberry*	0	FACU	Introduced	herb	perennial	0	0	*Duchesnea indica*
ECHCRU		*Echinochloa crus-galli*	*barnyard grass, large barnyard grass*	0	FACW/FAC	Introduced	herb	annual	0	0	*Echinochloa crus-galli*
ECHLOB		*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELAUMB		*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELEOBT		*Eleocharis obtusa*	*blunt spike-rush*	3	OBL	Native	herb	annual/perei	0	0	*Eleocharis obtusa*
EQUARV		*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
EREHIE		*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERISTR		*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
EUPPER		*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
EUTMAC		*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FESRUB		*Festuca rubra*	*red fescue*	0	FACU	Introduced	herb	perennial	0	0	*Festuca rubra*

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FILRUB		*Filipendula rubra*	*queen-of-the-prairie*	0	OBL/FACW	Introduced	herb	perennial	0	0	*Filipendula rubra*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR		*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GENALB		*Gentiana alba*	*cream gentian, pale gentian, yellow gen*	7	FACU	Native	herb	perennial	0	0	*Gentiana alba*
GEUALE		*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED		*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR		*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HELGRO		*Helianthus grosseserratus*	*saw-tooth sunflower*	2	FACW	Native	herb	perennial	0	0	*Helianthus grosseserratus*
HEMFUL		*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
HYPPER		*Hypericum perforatum*	*common St. John's-wort, Klamath-weed*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Hypericum perforatum*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
IRIVIR		*Iris virginica*	*southern blue flag, Virginia iris*	5	OBL	Native	herb	perennial	0	0	*Iris virginica*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD		*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LEEORY		*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
LEOCAR		*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LILMIC		*Lilium michiganense*	*Michigan lily, Turk's-cap lily*	6	FACW	Native	herb	perennial	0	0	*Lilium michiganense*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME		*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYSNUM		*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MALPUM		*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
MATSTR		*Matteuccia struthiopteris*	*American ostrich fern, ostrich fern*	5	FACW/FAC	Native	herb	perennial	0	0	*Matteuccia struthiopteris*
MEDLUP		*Medicago lupulina*	*black medick*	0	FACU	Introduced	herb	annual/bienr	0	0	*Medicago lupulina*
MELALB		*Melilotus albus*	*white sweet-clover*	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus albus*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
MUHMEX		*Muhlenbergia mexicana*	*leafy satin grass, Mexican muhly, wire-s*	4	FACW	Native	herb	perennial	0	0	*Muhlenbergia mexicana*
ONOSEN		*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
OXASTR		*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT		*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PENSED		*Penthorum sedoides*	*ditch stonecrop*	3	OBL	Native	herb	perennial	0	0	*Penthorum sedoides*
PERAMP		*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERHYD		*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*

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PERMAC		*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PERSAG		*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHYALK		*Physalis alkekengi*	*Chinese lantern-plant, strawberry grour*	0	0	Introduced	herb	perennial	0	0	*Physalis alkekengi*
PHYAME		*Phytolacca americana*	*American pokeberry, pokeweed*	1	FACU	Native	herb	perennial	0	0	*Phytolacca americana*
PILPUM		*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
PLAMAJ		*Plantago major*	*broad-leaved plantain, common plantai*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Plantago major*
POAPAL		*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR		*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
PRUVUL		*Prunella vulgaris*	*heal-all, lawn prunella, self-heal*	1	FAC	Native	herb	perennial	0	0	*Prunella vulgaris*
PYCVIR		*Pycnanthemum virginianum*	*common mountain mint, Virginia mouni*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUEELL		*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RANABO		*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/pere	0	0	*Ranunculus abortivus*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA		*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME		*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROBPSE		*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUMCRI		*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
RUMVER		*Rumex verticillatus*	*swamp dock, water dock*	6	OBL	Native	herb	perennial	0	0	*Rumex verticillatus*
SALDIS		*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALHUM		*Salix humilis*	*prairie willow, upland willow*	6	FACU	Native	shrub	perennial	0	0	*Salix humilis*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANODO		*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCHTAB		*Schoenoplectus tabernaemontani*	*great bulrush, soft-stem bulrush*	4	OBL	Native	herb	perennial	0	0	*Schoenoplectus tabernaemontani*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*

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SILLAT		*Silene latifolia*	*bladder campion, white campion, white*	0	0	Introduced	herb	0	0	0	*Silene latifolia*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLDUL		*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLGIG		*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SPAPEC		*Spartina pectinata*	*prairie cord grass, slough grass*	5	FACW	Native	herb	perennial	0	0	*Spartina pectinata*
STAPAL		*Stachys palustris*	*hedge-nettle, marsh hedge-nettle, wour*	5	OBL	Native	herb	perennial	0	0	*Stachys palustris*
SYMFIR		*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
SYMNOV		*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
SYMPIL		*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT		*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS		*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VERTHA		*Verbascum thapsus*	*common mullein, flannel plant, giant m*	0	UPL	Introduced	herb	biennial	0	0	*Verbascum thapsus*
VERURT		*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBDEN		*Viburnum dentatum*	*southern arrow-wood*	0	FAC	Introduced	shrub	perennial	0	0	*Viburnum dentatum*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Indian Mound/Thrun Marsh Conservancies Summer 2022	PLANT COMMUNITY:	Southern Dry-mesic Forest & Southern Mesic Forest
ASSESSMENT AREA NAME:	ITMU-1 Southern Dry-mesic Forest & Southern Mesic Forest	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
104	76	28	52%	18%	34.9	36.4	4.0	4.2	29.8	35.5	2.9	3.5	4.2	1.4	3.1	0.0
													152%	38%	99%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACEPLA	1	*Acer platanoides*	*Norway maple*	0	UPL	Introduced	tree	perennial	0	Caution	*Acer platanoides*
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG	2	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEVIR	1	*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ARITRI	2	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
ASACAN	1	*Asarum canadense*	*Canadian wild-ginger, wild-ginger*	7	FACU/UPL	Native	herb	perennial	0	0	*Asarum canadense*
BETPAP	1	*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
BLEHIR	2	*Blephilia hirsuta*	*hairy pagoda-plant, hairy wood mint*	7	FACU	Native	herb	perennial	0	0	*Blephilia hirsuta*
BROLAT	1	*Bromus latiglumis*	*ear-leaved brome, hairy woodbrome, flo*	6	FACW	Native	herb	perennial	0	0	*Bromus latiglumis*
CAMAME	1	*Campanulastrum americanum*	*American bellflower, tall bellflower*	4	FAC	Native	herb	0	0	0	*Campanula americana*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodland*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARBRO	1	*Carex bromoides*	*brome-like sedge*	8	FACW	Native	herb	perennial	0	0	*Carex bromoides*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARCEPHALOP	2	*Carex cephalophora*	*oval-headed sedge, short-headed bracte*	4	FACU	Native	herb	perennial	0	0	*Carex cephalophora*
CARDEB	1	*Carex debilis*	*weak sedge, white-edge sedge*	5	FACW	Native	herb	perennial	0	0	*Carex debilis*
CARGRI	1	*Carex grisea*	*eastern narrow-leaved sedge, gray sedg*	4	FAC	Native	herb	perennial	0	0	*Carex grisea*
CARROSE	1	*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARSPR	1	*Carex sprengelii*	*long-beaked sedge, Sprengel's sedge*	6	FAC	Native	herb	perennial	0	0	*Carex sprengelii*
CAROVAT	8	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CATSPE	1	*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELORB	10	*Celastrus orbiculatus*	*Asian bittersweet, Asiatic bittersweet, C*	0	UPL	Introduced	shrub	perennial	0	Restricted	*Celastrus orbiculatus*
CELOCC	23	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRCAN	2	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CERCAN	1	*Cercis canadensis*	*Eastern redbud*	0	FACU	Introduced	tree	perennial	0	0	*Cercis canadensis*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CONMAJ	3	*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
CORRAC	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DACGLO	1	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DRYCAR	1	*Dryopteris carthusiana*	*spinulose wood fern, toothed wood fern*	7	FACW	Native	herb	perennial	0	0	*Dryopteris carthusiana*
ECHLOB	1	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELYCAN	1	*Elymus canadensis*	*Canada wild-rye*	4	FACU	Native	herb	perennial	0	0	*Elymus canadensis*
ELYHYS	2	*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYVIL	2	*Elymus villosus*	*downy wild-rye, hairy wild-rye, silky wil*	6	FACU	Native	herb	0	0	0	*Elymus villosus*
ELYVIR	1	*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUTPUR	3	*Eutrochium purpureum*	*green-stemmed Joe-Pye-weed, purple Jo*	6	FAC	Native	herb	perennial	0	0	*Eutrochium purpureum*
FRAPEN	5	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	2	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HEMFUL	1	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
JUGNIG	20	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LAMMAC	1	*Lamium maculatum*	*red dead-nettle, spotted henbit, variega*	0	0	Introduced	herb	perennial	0	0	*Lamium maculatum*
LEEVIR	1	*Leersia virginica*	*white grass*	5	FACW	Native	herb	perennial	0	0	*Leersia virginica*
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LIGVUL	1	*Ligustrum vulgare*	*common privet, European privet*	0	FACU	Introduced	shrub	perennial	0	Caution	*Ligustrum vulgare*
LOLARU	5	*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	8	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MAISTE	1	*Maianthemum stellatum*	*little false, starflower, & starry false Sol*	5	FAC	Native	herb	perennial	0	0	*Maianthemum stellatum*
MATSTR	1	*Matteuccia struthiopteris*	*American ostrich fern, ostrich fern*	5	FACW/FAC	Native	herb	perennial	0	0	*Matteuccia struthiopteris*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
NEPCAT	1	*Nepeta cataria*	*catnip*	0	FACU	Introduced	herb	perennial	0	0	*Nepeta cataria*
OSMCLA1	1	*Osmorhiza claytonii*	*bland sweet cicely*	5	FACU	Native	herb	perennial	0	0	*Osmorhiza claytonii*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	16	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERMAC	1	*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PERVIR	2	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU	1	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHRLEP	1	*Phryma leptostachya*	*American lop-seed*	5	UPL/FACU	Native	herb	perennial	0	0	*Phryma leptostachya*
PHYAME	1	*Phytolacca americana*	*American pokeberry, pokeweed*	1	FACU	Native	herb	perennial	0	0	*Phytolacca americana*
PICABI	1	*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PILPUM	1	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
PINRES	1	*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL	1	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POLBIF	1	*Polygonatum biflorum*	*King Solomon's-seal, smooth Solomon's*	4	FACU	Native	herb	perennial	0	0	*Polygonatum biflorum*
POPTRE	1	*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
PRUSER	6	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	15	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEELL	1	*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	21	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	1	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	1	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	3	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	2	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANGCAN	1	*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
SANODO	1	*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCRMAR	1	*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLDUL	1	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLULM	1	*Solidago ulmifolia*	*elm-leaved goldenrod*	5	0	Native	herb	0	0	0	*Solidago ulmifolia*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TILAME	16	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	4	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*
ZANAME	2	*Zanthoxylum americanum*	*common prickly-ash, northern prickly-as*	3	FACU	Native	shrub	perennial	0	0	*Zanthoxylum americanum*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Indian Mound/Thrun Marsh Conservancies Summer 2022	PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	ITMU-2 Southern Hardwood Swamp & Emergent Marsh	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
101	75	26	83%	40%	34.8	31.5	4.0	3.6	30.0	24.0	3.0	2.4	2.7	2.5	2.2	3.0
													58%	42%	107%	2%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACEPLA	2	*Acer platanoides*	*Norway maple*	0	UPL	Introduced	tree	perennial	0	Caution	*Acer platanoides*
ACESACCHARI	5	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ALLCAN	1	*Allium canadense*	*meadow garlic, wild garlic, wild onion*	4	FACU	Native	herb	biennial/per	0	0	*Allium canadense*
AMBTRI	1	*Ambrosia trifida*	*giant ragweed, great ragweed, horse-cc*	0	FAC	Native	herb	annual	0	0	*Ambrosia trifida*
ANECAN	1	*Anemone canadensis*	*Canada anemone, Canadian anemone,*	4	FACW	Native	herb	perennial	0	0	*Anemone canadensis*
ARITRI	1	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
BIDCER	1	*Bidens cernua*	*nodding beggar-ticks, nodding bur-mari*	4	OBL	Native	herb	annual	0	0	*Bidens cernua*
BLEHIR	1	*Blephilia hirsuta*	*hairy pagoda-plant, hairy wood mint*	7	FACU	Native	herb	perennial	0	0	*Blephilia hirsuta*
BOLFLU	1	*Bolboschoenus fluviatilis*	*river bulrush*	6	OBL	Native	herb	perennial	0	0	*Bolboschoenus fluviatilis*
CALCAN	1	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARDAV	1	*Carex davisii*	*awned graceful sedge, Davis' sedge*	8	FAC	Native	herb	perennial	0	0	*Carex davisii*
CARLAC	1	*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARPEL	1	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARSTR	2	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CARVUL	1	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CELOCC	3	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CICBUL	1	*Cicuta bulbifera*	*bulblet water-hemlock*	7	OBL	Native	herb	perennial	0	0	*Cicuta bulbifera*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN	2	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORSER	10	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL	1	*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
CUSGRO	1	*Cuscuta gronovii*	*common dodder, scald-weed, swamp dc*	4	0	Native	herb	annual/perei	0	0	*Cuscuta gronovii*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
DIAOBO	1	*Diarrhena obovata*	*obovate beak grain*	10	FAC/FACU	Native	herb	perennial	Endangered	0	*Diarrhena obovata*
ECHLOB	1	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ECHVUL	1	*Echium vulgare*	*blueweed, common viper's-bugloss, vipe*	0	0	Introduced	herb	biennial	0	0	*Echium vulgare*
ELYCAN	1	*Elymus canadensis*	*Canada wild-rye*	4	FACU	Native	herb	perennial	0	0	*Elymus canadensis*
ELYHYS	1	*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYVIR	1	*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
EPICOL	1	*Epilobium coloratum*	*cinnamon willow-herb, eastern willow-h*	3	OBL	Native	herb	perennial	0	0	*Epilobium coloratum*
ERISTR	2	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
FRAPEN	10	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	2	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
GLETRI	1	*Gleditsia triacanthos*	*honey locust*	7	FACU/FAC	Native	tree	perennial	0	0	*Gleditsia triacanthos*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HESMAT	1	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/pere	0	Restricted	*Hesperis matronalis*
IMPCAP	2	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	5	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LOLARU	1	*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*
LONTAT	10	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSCIL	1	*Lysimachia ciliata*	*fringed loosestrife*	5	FACW	Native	herb	perennial	0	0	*Lysimachia ciliata*
LYTSAL	1	*Lythrum salicaria*	*purple loosestrife, spiked loosestrife*	0	OBL	Introduced	herb	perennial	0	Restricted	*Lythrum salicaria*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MELALB	1	*Melilotus albus*	*white sweet-clover*	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus albus*
MIMRIN	1	*Mimulus ringens*	*Allegheny monkey-flower, monkey-flow*	6	OBL	Native	herb	perennial	0	0	*Mimulus ringens*

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MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	2	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OENBIE	1	*Oenothera biennis*	*bastard evening-primrose, common eve*	1	FACU	Native	herb	biennial/per	0	0	*Oenothera biennis*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PENSED	1	*Penthorum sedoides*	*ditch stonecrop*	3	OBL	Native	herb	perennial	0	0	*Penthorum sedoides*
PERAMP	1	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PHAARU	5	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PILPUM	1	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
POAPAL	1	*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUAME	2	*Prunus americana*	*American plum, wild plum*	3	UPL	Native	shrub	perennial	0	0	*Prunus americana*
PRUVIR	1	*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEBIC	1	*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
RANACR	1	*Ranunculus acris*	*common buttercup, blister plant, meadc*	0	FAC	Introduced	herb	perennial	0	0	*Ranunculus acris*
RANHIS	1	*Ranunculus hispidus*	*bristly buttercup, hispid buttercup, roug*	6	FAC	Native	herb	perennial	0	0	*Ranunculus hispidus*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	3	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROBPSE	1	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUMCRI	1	*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
RUMORB	1	*Rumex britannica*	*great water dock*	8	OBL	Native	herb	0	0	0	*Rumex britannica*
SAGLAT	2	*Sagittaria latifolia*	*broad-leaved arrowhead*	3	OBL	Native	aquatic	perennial	0	0	*Sagittaria latifolia*
SALBAB	10	*Salix alba f. cv. 'Vitellina'*	*weeping willow*	0	FACW	Excluded	tree	0	0	0	*Salix alba L. f. cv. Vitellina*
SALINT	1	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	1	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	2	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANODO	1	*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLDUL	1	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLGIG	1	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SONASP	1	*Sonchus asper*	*prickly sow-thistle, spiny sow-thistle*	0	FACU	Introduced	herb	annual	0	0	*Sonchus asper*
SYMFIR	1	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT	2	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*

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THUOCC	5	*Thuja occidentalis*	*eastern arborvitae, northern white-cedc*	9	FACW	Native	tree	perennial	0	0	*Thuja occidentalis*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TYPANG	25	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
VERFAS	1	*Vernonia fasciculata*	*common ironweed, prairie ironweed, sn*	5	FACW	Native	herb	0	0	0	*Vernonia fasciculata*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VERURT	1	*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBLEN	1	*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VIBOPU	5	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, hc*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES	2	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Indian Mound/Thrun Marsh Conservancies Summer 2022	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
164	123	41			45.7		4.1		39.6		3.1					
													0%	0%	0%	0%

:Total Cover

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ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACEPLA		*Acer platanoides*	*Norway maple*	0	UPL	Introduced	tree	perennial	0	Caution	*Acer platanoides*
ACESACCHARI		*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGEALT		*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLCAN		*Allium canadense*	*meadow garlic, wild garlic, wild onion*	4	FACU	Native	herb	biennial/pere	0	0	*Allium canadense*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
AMBTRI		*Ambrosia trifida*	*giant ragweed, great ragweed, horse-cc*	0	FAC	Native	herb	annual	0	0	*Ambrosia trifida*
ANECAN		*Anemone canadensis*	*Canada anemone, Canadian anemone, ı*	4	FACW	Native	herb	perennial	0	0	*Anemone canadensis*
ANEVIR		*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ARITRI		*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
ASACAN		*Asarum canadense*	*Canadian wild-ginger, wild-ginger*	7	FACU/UPL	Native	herb	perennial	0	0	*Asarum canadense*
ASCINC		*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*

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BETPAP		*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
BIDCER		*Bidens cernua*	*nodding beggar-ticks, nodding bur-mari*	4	OBL	Native	herb	annual	0	0	*Bidens cernua*
BLEHIR		*Blephilia hirsuta*	*hairy pagoda-plant, hairy wood mint*	7	FACU	Native	herb	perennial	0	0	*Blephilia hirsuta*
BOLFLU		*Bolboschoenus fluviatilis*	*river bulrush*	6	OBL	Native	herb	perennial	0	0	*Bolboschoenus fluviatilis*
BROLAT		*Bromus latiglumis*	*ear-leaved brome, hairy woodbrome, fl*	6	FACW	Native	herb	perennial	0	0	*Bromus latiglumis*
CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CAMAME		*Campanulastrum americanum*	*American bellflower, tall bellflower*	4	FAC	Native	herb	0	0	0	*Campanula americana*
CARBLA		*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARBRO		*Carex bromoides*	*brome-like sedge*	8	FACW	Native	herb	perennial	0	0	*Carex bromoides*
CARCEPHALOP		*Carex cephalophora*	*oval-headed sedge, short-headed bract*	4	FACU	Native	herb	perennial	0	0	*Carex cephalophora*
CARDAV		*Carex davisii*	*awned graceful sedge, Davis' sedge*	8	FAC	Native	herb	perennial	0	0	*Carex davisii*
CARDEB		*Carex debilis*	*weak sedge, white-edge sedge*	5	FACW	Native	herb	perennial	0	0	*Carex debilis*
CARGRI		*Carex grisea*	*eastern narrow-leaved sedge, gray sedg*	4	FAC	Native	herb	perennial	0	0	*Carex grisea*
CARLAC		*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEL		*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARROSE		*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARSPR		*Carex sprengelii*	*long-beaked sedge, Sprengel's sedge*	6	FAC	Native	herb	perennial	0	0	*Carex sprengelii*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CARVUL		*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CATSPE		*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CELORB		*Celastrus orbiculatus*	*Asian bittersweet, Asiatic bittersweet, C*	0	UPL	Introduced	shrub	perennial	0	Restricted	*Celastrus orbiculatus*
CERCAN		*Cercis canadensis*	*Eastern redbud*	0	FACU	Introduced	tree	perennial	0	0	*Cercis canadensis*
CICBUL		*Cicuta bulbifera*	*bulblet water-hemlock*	7	OBL	Native	herb	perennial	0	0	*Cicuta bulbifera*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN		*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CONMAJ		*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
CORRAC		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER		*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL		*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
CUSGRO		*Cuscuta gronovii*	*common dodder, scald-weed, swamp d*	4	0	Native	herb	annual/pere	0	0	*Cuscuta gronovii*
DACGLO		*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
DIAOBO		*Diarrhena obovata*	*obovate beak grain*	10	FAC/FACU	Native	herb	perennial	Endangered	0	*Diarrhena obovata*

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DRYCAR		*Dryopteris carthusiana*	*spinulose wood fern, toothed wood fern*	7	FACW	Native	herb	perennial	0	0	*Dryopteris carthusiana*
ECHLOB		*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ECHVUL		*Echium vulgare*	*blueweed, common viper's-bugloss, vipe*	0	0	Introduced	herb	biennial	0	0	*Echium vulgare*
ELYCAN		*Elymus canadensis*	*Canada wild-rye*	4	FACU	Native	herb	perennial	0	0	*Elymus canadensis*
ELYHYS		*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYVIL		*Elymus villosus*	*downy wild-rye, hairy wild-rye, silky wil*	6	FACU	Native	herb	0	0	0	*Elymus villosus*
ELYVIR		*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
EPICOL		*Epilobium coloratum*	*cinnamon willow-herb, eastern willow-h*	3	OBL	Native	herb	perennial	0	0	*Epilobium coloratum*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERISTR		*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough f*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
EUTPUR		*Eutrochium purpureum*	*green-stemmed Joe-Pye-weed, purple Jo*	6	FAC	Native	herb	perennial	0	0	*Eutrochium purpureum*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED		*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
GLETRI		*Gleditsia triacanthos*	*honey locust*	7	FACU/FAC	Native	tree	perennial	0	0	*Gleditsia triacanthos*
HACVIR		*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HEMFUL		*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
HESMAT		*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/pere	0	Restricted	*Hesperis matronalis*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD		*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LAMMAC		*Lamium maculatum*	*red dead-nettle, spotted henbit, variega*	0	0	Introduced	herb	perennial	0	0	*Lamium maculatum*
LEEVIR		*Leersia virginica*	*white grass*	5	FACW	Native	herb	perennial	0	0	*Leersia virginica*
LEOCAR		*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LIGVUL		*Ligustrum vulgare*	*common privet, European privet*	0	FACU	Introduced	shrub	perennial	0	Caution	*Ligustrum vulgare*
LOLARU		*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSCIL		*Lysimachia ciliata*	*fringed loosestrife*	5	FACW	Native	herb	perennial	0	0	*Lysimachia ciliata*
LYTSAL		*Lythrum salicaria*	*purple loosestrife, spiked loosestrife*	0	OBL	Introduced	herb	perennial	0	Restricted	*Lythrum salicaria*
MAIRAC		*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MAISTE		*Maianthemum stellatum*	*little false, starflower, & starry false Sol*	5	FAC	Native	herb	perennial	0	0	*Maianthemum stellatum*
MATSTR		*Matteuccia struthiopteris*	*American ostrich fern, ostrich fern*	5	FACW/FAC	Native	herb	perennial	0	0	*Matteuccia struthiopteris*
MELALB		*Melilotus albus*	*white sweet-clover*	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus albus*
MIMRIN		*Mimulus ringens*	*Allegheny monkey-flower, monkey-flow*	6	OBL	Native	herb	perennial	0	0	*Mimulus ringens*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*

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MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
NEPCAT		*Nepeta cataria*	*catnip*	0	FACU	Introduced	herb	perennial	0	0	*Nepeta cataria*
OENBIE		*Oenothera biennis*	*bastard evening-primrose, common eve*	1	FACU	Native	herb	biennial/pere	0	0	*Oenothera biennis*
OSMCLA1		*Osmorhiza claytonii*	*bland sweet cicely*	5	FACU	Native	herb	perennial	0	0	*Osmorhiza claytonii*
OXASTR		*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PENSED		*Penthorum sedoides*	*ditch stonecrop*	3	OBL	Native	herb	perennial	0	0	*Penthorum sedoides*
PERAMP		*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERMAC		*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHRLEP		*Phryma leptostachya*	*American lop-seed*	5	UPL/FACU	Native	herb	perennial	0	0	*Phryma leptostachya*
PHYAME		*Phytolacca americana*	*American pokeberry, pokeweed*	1	FACU	Native	herb	perennial	0	0	*Phytolacca americana*
PICABI		*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PILPUM		*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
PINRES		*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
POAPAL		*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POLBIF		*Polygonatum biflorum*	*King Solomon's-seal, smooth Solomon's*	4	FACU	Native	herb	perennial	0	0	*Polygonatum biflorum*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POPTRE		*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
PRUAME		*Prunus americana*	*American plum, wild plum*	3	UPL	Native	shrub	perennial	0	0	*Prunus americana*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR		*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEBIC		*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
QUEELL		*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RANACR		*Ranunculus acris*	*common buttercup, blister plant, meado*	0	FAC	Introduced	herb	perennial	0	0	*Ranunculus acris*
RANHIS		*Ranunculus hispidus*	*bristly buttercup, hispid buttercup, roug*	6	FAC	Native	herb	perennial	0	0	*Ranunculus hispidus*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA		*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME		*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROBPSE		*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*

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RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUMCRI		*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
RUMORB		*Rumex britannica*	*great water dock*	8	OBL	Native	herb	0	0	0	*Rumex britannica*
SAGLAT		*Sagittaria latifolia*	*broad-leaved arrowhead*	3	OBL	Native	aquatic	perennial	0	0	*Sagittaria latifolia*
SALBAB		*Salix alba f. cv. 'Vitellina'*	*weeping willow*	0	FACW	Excluded	tree	0	0	0	*Salix alba L. f. cv. Vitellina*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANGCAN		*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
SANODO		*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCRMAR		*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
SMIHER		*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLDUL		*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLGIG		*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SOLULM		*Solidago ulmifolia*	*elm-leaved goldenrod*	5	0	Native	herb	0	0	0	*Solidago ulmifolia*
SONASP		*Sonchus asper*	*prickly sow-thistle, spiny sow-thistle*	0	FACU	Introduced	herb	annual	0	0	*Sonchus asper*
SYMFIR		*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
THUOCC		*Thuja occidentalis*	*eastern arborvitae, northern white-cedc*	9	FACW	Native	tree	perennial	0	0	*Thuja occidentalis*
TILAME		*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP		*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
VERFAS		*Vernonia fasciculata*	*common ironweed, prairie ironweed, sn*	5	FACW	Native	herb	0	0	0	*Vernonia fasciculata*
VERHAS		*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VERURT		*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBLEN		*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Summer 2022	PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	MMU-1 Oak Woodland	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
63	52	11	18%	9%	24.5	31.9	3.4	4.4	22.3	32.7	2.8	4.1	5.0	1.7	2.9	0.0
													136%	22%	52%	0%

:Total Cover

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ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGRY	2	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ANEVIR	1	*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
ATHFIL	1	*Athyrium filix-femina*	*common lady fern, lady fern*	5	FAC	Native	herb	perennial	0	0	*Athyrium filix-femina*
BETPAP	1	*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
CALCAN	1	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARCEPHALOP	1	*Carex cephalophora*	*oval-headed sedge, short-headed bracte*	4	FACU	Native	herb	perennial	0	0	*Carex cephalophora*
CARROSE	2	*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CAROVAT	75	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CELOCC	2	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN	3	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CORRAC	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*

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DACGLO	1	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELYVIR	1	*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
ERISTR	1	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
EUTMAC	1	*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC	1	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LEEVIR	1	*Leersia virginica*	*white grass*	5	FACW	Native	herb	perennial	0	0	*Leersia virginica*
LONTAT	3	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	10	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERVIR	2	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/pere	0	0	*Persicaria virginiana*
PHAARU	1	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHYAME	1	*Phytolacca americana*	*American pokeberry, pokeweed*	1	FACU	Native	herb	perennial	0	0	*Phytolacca americana*
PILPUM	1	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
PODPEL	2	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPTRE	1	*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
POTSIM	1	*Potentilla simplex*	*common cinquefoil, old-field five-finger*	2	FACU	Native	herb	perennial	0	0	*Potentilla simplex*
PRUSER	4	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR	3	*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB	15	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	21	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	1	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS	1	*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROBPSE	1	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	5	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	1	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SYMFIR	1	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAT	2	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TOXRAD	3	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIOAUR	1	*Triosteum aurantiacum*	*early horse-gentian, orange-fruit horse-*	5	0	Native	herb	perennial	0	0	*Triosteum aurantiacum*
TRIREP	1	*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Summer 2022	PLANT COMMUNITY:	Surrogate Grassland & Mesic Prairie
ASSESSMENT AREA NAME:	MMU-2 Surrogate Grassland & Mesic Prairie	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
71	53	18	93%	51%	26.5	21.2	3.6	2.9	22.9	12.1	2.7	1.4	3.6	1.9	1.2	0.0
													12%	25%	147%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN	1	*Acer ginnala*	*Amur maple*	0	0	Introduced	tree	perennial	0	Restricted	*Acer ginnala*
ACHMIL	2	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	5	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AMBTRI	1	*Ambrosia trifida*	*giant ragweed, great ragweed, horse-cc*	0	FAC	Native	herb	annual	0	0	*Ambrosia trifida*
ANAMAR	1	*Anaphalis margaritacea*	*pearly everlasting, western pearly everl*	3	FACU	Native	herb	perennial	0	0	*Anaphalis margaritacea*
ANDGER	1	*Andropogon gerardii*	*big blue-stem, turkey-foot*	4	FAC/FACU	Native	herb	perennial	0	0	*Andropogon gerardii*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BETPAP	1	*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
BROINE	20	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CAMAME	1	*Campanulastrum americanum*	*American bellflower, tall bellflower*	4	FAC	Native	herb	0	0	0	*Campanula americana*
CARPEL	1	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARSCO	1	*Carex scoparia*	*broom sedge, lance-fruited oval sedge*	4	FACW	Native	herb	perennial	0	0	*Carex scoparia*
CAROVAT	1	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CIRDIS	1	*Cirsium discolor*	*field thistle, pasture thistle, prairie thist*	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	*Cirsium discolor*
CORAMO	5	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORRAC	10	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DALCAN	1	*Dalea candida*	*slender white prairie-clover*	8	0	Native	herb	perennial	0	0	*Dalea candida*
DALPUR	1	*Dalea purpurea*	*purple prairie-clover*	7	0	Native	herb	perennial	0	0	*Dalea purpurea*
DAUCAR	20	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ECHPUR	1	*Echinacea purpurea*	*broad-leaved purple coneflower, easter*	0	0	Introduced	herb	perennial	0	0	*Echinacea purpurea*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ERISTR	1	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
ERYYUC	1	*Eryngium yuccifolium*	*button eryngo, rattlesnake-master*	8	FAC	Native	herb	perennial	0	0	*Eryngium yuccifolium*
HELAUT	1	*Helenium autumnale*	*common sneezeweed*	4	FACW	Native	herb	perennial	0	0	*Helenium autumnale*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LACCAN	1	*Lactuca canadensis*	*Canada lettuce, tall lettuce, tall wild lett*	2	FACU	Native	herb	annual/bienr	0	0	*Lactuca canadensis*
LEUVUL	1	*Leucanthemum vulgare*	*common daisy, field daisy, marguerite,*	0	UPL	Introduced	herb	perennial	0	0	*Leucanthemum vulgare*
LIAPYC	1	*Liatris pycnostachya*	*prairie blazing-star, thick-spike blazing-*	7	FAC	Native	herb	perennial	0	0	*Liatris pycnostachya*
LOBSIP	1	*Lobelia siphilitica*	*great blue lobelia*	5	OBL/FACW	Native	herb	perennial	0	0	*Lobelia siphilitica*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MELALB	1	*Melilotus albus*	*white sweet-clover*	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus albus*
MONFIS	2	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OENBIE	1	*Oenothera biennis*	*bastard evening-primrose, common eve*	1	FACU	Native	herb	biennial/pere	0	0	*Oenothera biennis*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PANVIR	1	*Panicum virgatum*	*switch grass*	4	FAC	Native	herb	perennial	0	0	*Panicum virgatum*
PHAARU	1	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA	1	*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*
PHYSOVIR	1	*Physostegia virginiana*	*false dragonhead, obedience*	7	FACW	Native	herb	0	0	0	*Physostegia virginiana*
POAPRA	20	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POTNOR	1	*Potentilla norvegica*	*Norwegian cinquefoil, rough cinquefoil,*	0	FAC	Native	herb	annual/perei	0	0	*Potentilla norvegica*
PRUSER	1	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PYCVIR	1	*Pycnanthemum virginianum*	*common mountain mint, Virginia moun*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
QUEALB	1	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RATPIN	1	*Ratibida pinnata*	*globular coneflower, yellow coneflower*	4	0	Native	herb	perennial	0	0	*Ratibida pinnata*
RHACAT	1	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RUBIDA	1	*Rubus idaeus*	*wild red raspberry*	3	FACU/FAC*	Native	shrub	perennial	0	0	*Rubus idaeus*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUDHIR	1	*Rudbeckia hirta*	*black-eyed Susan*	4	FACU	Native	herb	0	0	0	*Rudbeckia hirta*
RUMCRI	1	*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
SALINT	1	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SILCHA	1	*Silene chalcedonica*	*Maltese cross, scarlet lychnis*	0	0	Introduced	herb	0	0	0	*Silene chalcedonica*
SILPER	1	*Silphium perfoliatum*	*cup-plant*	4	FACW	Native	herb	0	0	0	*Silphium perfoliatum*
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLCAN	20	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	1	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SORNUT	1	*Sorghastrum nutans*	*yellow Indian grass*	5	FACU	Native	herb	perennial	0	0	*Sorghastrum nutans*
STATEN	1	*Stachys tenuifolia*	*narrow-leaved hedge-nettle, smooth he*	6	OBL/FACW	Native	herb	perennial	0	0	*Stachys tenuifolia*
SYMFIR	1	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMNOV	1	*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
SYMPIL	1	*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF	11	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIPRA	1	*Trifolium pratense*	*red clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium pratense*
ULMRUB	3	*Ulmus rubra*	*red elm, slippery elm*	4	FAC	Native	tree	perennial	0	0	*Ulmus rubra*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Summer 2022	PLANT COMMUNITY:	Emergent Marsh, Wet Meadow, S. Sedge Meadow, Shrub-carr, S. Hardwood Swamp
ASSESSMENT AREA NAME:	MMU-3 Wetlands	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
77	58	19	67%	30%	24.0	26.0	3.2	3.4	20.9	22.1	2.4	2.5	2.6	2.6	2.5	0.0
													41%	34%	145%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	4	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ANECAN	1	*Anemone canadensis*	*Canada anemone, Canadian anemone, r*	4	FACW	Native	herb	perennial	0	0	*Anemone canadensis*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ASCINC	2	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
CALCAN	5	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CALSEP	1	*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARLAC	1	*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CARPEL	3	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARSTR	12	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CIRCAN	2	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRDIS	1	*Cirsium discolor*	*field thistle, pasture thistle, prairie thist*	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	*Cirsium discolor*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORAMO	5	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORRAC	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ECHLOB	2	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
EQUARV	1	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUPPER	1	*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
EUTMAC	5	*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUALE	1	*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
IMPCAP	3	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LATPAL	1	*Lathyrus palustris*	*marsh pea, marsh vetchling, slender-ste*	5	FACW	Native	herb	perennial	0	0	*Lathyrus palustris*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYTSAL	1	*Lythrum salicaria*	*purple loosestrife, spiked loosestrife*	0	OBL	Introduced	herb	perennial	0	Restricted	*Lythrum salicaria*
MELOFF	1	*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MENARVVCAN	1	*Mentha canadensis*	*field mint, wild mint*	3	FACW	Native	herb	perennial	0	0	*Mentha arvensis*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERAMP	1	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERMAC	1	*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PHAARU	15	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHRAUSsAUS	1	*Phragmites australis ssp. australis*	*common reed, common reed grass*	0	0	Introduced	herb	perennial	0	Prohibited/Restricted	*Phragmites australis*
PILPUM	1	*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	8	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PYCVIR	4	*Pycnanthemum virginianum*	*common mountain mint, Virginia mount*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALBAB	1	*Salix alba f. cv. 'Vitellina'*	*weeping willow*	0	FACW	Excluded	tree	0	0	0	*Salix alba L. f. cv. Vitellina*
SALDIS	8	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT	10	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	15	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SOLCAN	2	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	8	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SONASP	4	*Sonchus asper*	*prickly sow-thistle, spiny sow-thistle*	0	FACU	Introduced	herb	annual	0	0	*Sonchus asper*
STAPAL	3	*Stachys palustris*	*hedge-nettle, marsh hedge-nettle, wour*	5	OBL	Native	herb	perennial	0	0	*Stachys palustris*
SYMFIR	5	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMNOV	1	*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
SYMPIL	1	*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TEUCAN	1	*Teucrium canadense*	*American germander, Canadian germar*	4	FACW	Native	herb	perennial	0	0	*Teucrium canadense*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TYPANG	25	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT	1	*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS	3	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/per	0	0	*Verbena hastata*
VERURT	1	*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBOPU	4	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITRIP	1	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Summer 2022	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons and John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/20/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
143	110	33			37.6		3.6		32.9		2.8					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN		*Acer ginnala*	*Amur maple*	0	0	Introduced	tree	perennial	0	Restricted	*Acer ginnala*
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGEALT		*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AMBTRI		*Ambrosia trifida*	*giant ragweed, great ragweed, horse-cc*	0	FAC	Native	herb	annual	0	0	*Ambrosia trifida*
ANAMAR		*Anaphalis margaritacea*	*pearly everlasting, western pearly everl*	3	FACU	Native	herb	perennial	0	0	*Anaphalis margaritacea*
ANDGER		*Andropogon gerardii*	*big blue-stem, turkey-foot*	4	FAC/FACU	Native	herb	perennial	0	0	*Andropogon gerardii*
ANECAN		*Anemone canadensis*	*Canada anemone, Canadian anemone, r*	4	FACW	Native	herb	perennial	0	0	*Anemone canadensis*
ANEVIR		*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ASCINC		*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR		*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
ATHFIL		*Athyrium filix-femina*	*common lady fern, lady fern*	5	FAC	Native	herb	perennial	0	0	*Athyrium filix-femina*
BETPAP		*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*

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CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CALSEP		*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CAMAME		*Campanulastrum americanum*	*American bellflower, tall bellflower*	4	FAC	Native	herb	0	0	0	*Campanula americana*
CARCEPHALOP		*Carex cephalophora*	*oval-headed sedge, short-headed bracte*	4	FACU	Native	herb	perennial	0	0	*Carex cephalophora*
CARLAC		*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEL		*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARROSE		*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARSCO		*Carex scoparia*	*broom sedge, lance-fruited oval sedge*	4	FACW	Native	herb	perennial	0	0	*Carex scoparia*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN		*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRDIS		*Cirsium discolor*	*field thistle, pasture thistle, prairie thist*	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	*Cirsium discolor*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORAMO		*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORRAC		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DACGLO		*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DALCAN		*Dalea candida*	*slender white prairie-clover*	8	0	Native	herb	perennial	0	0	*Dalea candida*
DALPUR		*Dalea purpurea*	*purple prairie-clover*	7	0	Native	herb	perennial	0	0	*Dalea purpurea*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ECHLOB		*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ECHPUR		*Echinacea purpurea*	*broad-leaved purple coneflower, easter*	0	0	Introduced	herb	perennial	0	0	*Echinacea purpurea*
ELAUMB		*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELYVIR		*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
EQUARV		*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERISTR		*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
ERYYUC		*Eryngium yuccifolium*	*button eryngo, rattlesnake-master*	8	FAC	Native	herb	perennial	0	0	*Eryngium yuccifolium*
EUPPER		*Eupatorium perfoliatum*	*boneset, common boneset, thoroughwo*	6	OBL/FACW	Native	herb	perennial	0	0	*Eupatorium perfoliatum*
EUTMAC		*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR		*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC		*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUALE		*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*

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HACVIR		*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HELAUT		*Helenium autumnale*	*common sneezeweed*	4	FACW	Native	herb	perennial	0	0	*Helenium autumnale*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD		*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LACCAN		*Lactuca canadensis*	*Canada lettuce, tall lettuce, tall wild lett*	2	FACU	Native	herb	annual/bienr	0	0	*Lactuca canadensis*
LATPAL		*Lathyrus palustris*	*marsh pea, marsh vetchling, slender-ste*	5	FACW	Native	herb	perennial	0	0	*Lathyrus palustris*
LEEVIR		*Leersia virginica*	*white grass*	5	FACW	Native	herb	perennial	0	0	*Leersia virginica*
LEUVUL		*Leucanthemum vulgare*	*common daisy, field daisy, marguerite, (	0	UPL	Introduced	herb	perennial	0	0	*Leucanthemum vulgare*
LIAPYC		*Liatris pycnostachya*	*prairie blazing-star, thick-spike blazing-s*	7	FAC	Native	herb	perennial	0	0	*Liatris pycnostachya*
LOBSIP		*Lobelia siphilitica*	*great blue lobelia*	5	OBL/FACW	Native	herb	perennial	0	0	*Lobelia siphilitica*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME		*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYTSAL		*Lythrum salicaria*	*purple loosestrife, spiked loosestrife*	0	OBL	Introduced	herb	perennial	0	Restricted	*Lythrum salicaria*
MAIRAC		*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MELALB		*Melilotus albus*	*white sweet-clover*	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus albus*
MELOFF		*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MENARVCAN		*Mentha canadensis*	*field mint, wild mint*	3	FACW	Native	herb	perennial	0	0	*Mentha arvensis*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OENBIE		*Oenothera biennis*	*bastard evening-primrose, common eve*	1	FACU	Native	herb	biennial/pere	0	0	*Oenothera biennis*
OXASTR		*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PANVIR		*Panicum virgatum*	*switch grass*	4	FAC	Native	herb	perennial	0	0	*Panicum virgatum*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERAMP		*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERMAC		*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA		*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*
PHRAUSSAUS		*Phragmites australis ssp. australis*	*common reed, common reed grass*	0	0	Introduced	herb	perennial	0	Prohibited/Restricted	*Phragmites australis*
PHYAME		*Phytolacca americana*	*American pokeberry, pokeweed*	1	FACU	Native	herb	perennial	0	0	*Phytolacca americana*
PHYSOVIR		*Physostegia virginiana*	*false dragonhead, obedience*	7	FACW	Native	herb	0	0	0	*Physostegia virginiana*
PILPUM		*Pilea pumila*	*Canadian clearweed*	3	FACW	Native	herb	annual	0	0	*Pilea pumila*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPTRE		*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
POTNOR		*Potentilla norvegica*	*Norwegian cinquefoil, rough cinquefoil,*	0	FAC	Native	herb	annual/perei	0	0	*Potentilla norvegica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POTSIM		*Potentilla simplex*	*common cinquefoil, old-field five-finger*	2	FACU	Native	herb	perennial	0	0	*Potentilla simplex*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR		*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
PYCVIR		*Pycnanthemum virginianum*	*common mountain mint, Virginia moun*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RATPIN		*Ratibida pinnata*	*globular coneflower, yellow coneflower*	4	0	Native	herb	perennial	0	0	*Ratibida pinnata*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS		*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROBPSE		*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBIDA		*Rubus idaeus*	*wild red raspberry*	3	FACU/FAC*	Native	shrub	perennial	0	0	*Rubus idaeus*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUDHIR		*Rudbeckia hirta*	*black-eyed Susan*	4	FACU	Native	herb	0	0	0	*Rudbeckia hirta*
RUMCRI		*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
SALBAB		*Salix alba f. cv. 'Vitellina'*	*weeping willow*	0	FACW	Excluded	tree	0	0	0	*Salix alba L. f. cv. Vitellina*
SALDIS		*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SILCHA		*Silene chalcedonica*	*Maltese cross, scarlet lychnis*	0	0	Introduced	herb	0	0	0	*Silene chalcedonica*
SILPER		*Silphium perfoliatum*	*cup-plant*	4	FACW	Native	herb	0	0	0	*Silphium perfoliatum*
SMIHER		*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG		*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SONASP		*Sonchus asper*	*prickly sow-thistle, spiny sow-thistle*	0	FACU	Introduced	herb	annual	0	0	*Sonchus asper*
SORNUT		*Sorghastrum nutans*	*yellow Indian grass*	5	FACU	Native	herb	perennial	0	0	*Sorghastrum nutans*
STAPAL		*Stachys palustris*	*hedge-nettle, marsh hedge-nettle, wour*	5	OBL	Native	herb	perennial	0	0	*Stachys palustris*
STATEN		*Stachys tenuifolia*	*narrow-leaved hedge-nettle, smooth he*	6	OBL/FACW	Native	herb	perennial	0	0	*Stachys tenuifolia*
SYMFIR		*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
SYMNOV		*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
SYMPIL		*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TEUCAN		*Teucrium canadense*	*American germander, Canadian germar*	4	FACW	Native	herb	perennial	0	0	*Teucrium canadense*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIOAUR		*Triosteum aurantiacum*	*early horse-gentian, orange-fruit horse-*	5	0	Native	herb	perennial	0	0	*Triosteum aurantiacum*
TRIPRA		*Trifolium pratense*	*red clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium pratense*
TRIREP		*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT		*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
ULMRUB		*Ulmus rubra*	*red elm, slippery elm*	4	FAC	Native	tree	perennial	0	0	*Ulmus rubra*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS		*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/per	0	0	*Verbena hastata*
VERURT		*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Siggelkow Road Park Summer 2022	PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	SMU-1 Southern Dry-mesic Forest	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
59	39	20	35%	17%	20.8	27.3	3.3	4.4	16.9	27.9	2.2	3.6	4.8	0.7	2.7	0.0
													111%	22%	71%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
ANEQUI	1	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCLAP	1	*Arctium lappa*	*great burdock*	0	0	Introduced	herb	biennial	0	0	*Arctium lappa*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ARITRI	2	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARROSE	1	*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARCOR	1	*Carya cordiformis*	*bitter-nut hickory, pig-nut, yellow-bud h*	6	FACU/FAC	Native	tree	perennial	0	0	*Carya cordiformis*
CAROVAT	8	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CELOCC	26	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRCAN	4	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CONCAN	1	*Conyza canadensis*	*Canadian horseweed, fleabane, hogwee*	0	FACU	Native	herb	0	0	0	*Conyza canadensis*
CRAMOL	1	*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
DACGLO	1	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DUCIND	1	*Duchesnea indica*	*false strawberry, Indian strawberry*	0	FACU	Introduced	herb	perennial	0	0	*Duchesnea indica*
EREHIE	1	*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
EUTPUR	1	*Eutrochium purpureum*	*green-stemmed Joe-Pye-weed, purple Jo*	6	FAC	Native	herb	perennial	0	0	*Eutrochium purpureum*
FRAAME	1	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	3	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	2	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC	10	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	2	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HEMFUL	1	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
LIGVUL	1	*Ligustrum vulgare*	*common privet, European privet*	0	FACU	Introduced	shrub	perennial	0	Caution	*Ligustrum vulgare*
LONRET	2	*Lonicera reticulata*	*grape honeysuckle, yellow honeysuckle*	6	0	Native	shrub	perennial	0	0	*Lonicera reticulata*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	5	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
NEPCAT	1	*Nepeta cataria*	*catnip*	0	FACU	Introduced	herb	perennial	0	0	*Nepeta cataria*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	11	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	1	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PODPEL	15	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
PRUSER	15	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	30	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHACAT	12	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	1	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SILLAT	1	*Silene latifolia*	*bladder campion, white campion, white*	0	0	Introduced	herb	0	0	0	*Silene latifolia*
SOLDUL	1	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SONOLE	1	*Sonchus oleraceus*	*common sow-thistle, field sow-thistle*	0	FACU	Introduced	herb	annual	0	0	*Sonchus oleraceus*
SYMPIL	1	*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TILAME	5	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIREP	1	*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
ULMRUB	1	*Ulmus rubra*	*red elm, slippery elm*	4	FAC	Native	tree	perennial	0	0	*Ulmus rubra*
VERTHA	1	*Verbascum thapsus*	*common mullein, flannel plant, giant m*	0	UPL	Introduced	herb	biennial	0	0	*Verbascum thapsus*
VERURT	1	*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Taylor Road Conservancy Summer 2022	PLANT COMMUNITY:	Conifer Plantation
ASSESSMENT AREA NAME:	TMU-1 Conifer Plantation	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
33	22	11	59%	31%	15.6	24.9	3.3	5.3	12.7	22.8	2.2	4.0	5.4	1.3	1.5	0.0
													123%	44%	25%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BROINE	1	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CAROVAT	7	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN	2	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CELOCC	1	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRCAN	4	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CONMAJ	2	*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
EREHIE	1	*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
FRAAME	2	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	8	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
HYPPER	1	*Hypericum perforatum*	*common St. John's-wort, Klamath-weed*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Hypericum perforatum*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LONTAT	10	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MELOFF	1	*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MORALB	8	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PINRES	75	*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PRUSER	15	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
RHACAT	26	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SECVAR	1	*Securigera varia*	*crown-vetch, purple crown-vetch*	0	0	Introduced	herb	perennial	0	Restricted	*Securigera varia*
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIREP	1	*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*
VIBOPU	7	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITAES	5	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Taylor Road Conservancy Summer 2022	PLANT COMMUNITY:	Invaded Surrogate Grassland
ASSESSMENT AREA NAME:	TMU-2 (A/B) Invaded Surrogate Grassland	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
39	20	19	83%	41%	8.9	10.5	2.0	2.4	6.4	8.6	1.0	1.4	2.9	1.7	0.4	0.0
													62%	28%	111%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGEALT	1	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AMBART	1	*Ambrosia artemisiifolia*	*annual bur-sage, common ragweed, sho*	0	FACU	Native	herb	annual	0	0	*Ambrosia artemisiifolia*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BROINE	10	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
BROJAP	15	*Bromus arvensis*	*Japanese chess*	0	FACU	Introduced	herb	0	0	0	*Bromus arvensis*
CENSTO	15	*Centaurea stoebe*	*Spotted knapweed*	0	0	Introduced	herb	biennial/pere	0	Restricted	*Centaurea stoebe*
CIRVUL	2	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CONCAN	2	*Conyza canadensis*	*Canadian horseweed, fleabane, hogwee*	0	FACU	Native	herb	0	0	0	*Conyza canadensis*
DACGLO	1	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR	5	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUPVIR	1	*Euphorbia virgata*	*leafy spurge, wolf's-milk*	0	0	Introduced	herb	0	0	0	*Euphorbia esula*
FRAAME	1	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
JUGNIG	55	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LOLARU	5	*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LONTAT	3	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MELOFF	2	*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MONFIS	5	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	2	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PHAARU	1	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA	1	*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*
PLAMAJ	1	*Plantago major*	*broad-leaved plantain, common plantai*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Plantago major*
POAPRA	5	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	2	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEVEL	1	*Quercus velutina*	*black oak*	5	0	Native	tree	perennial	0	0	*Quercus velutina*
RHACAT	2	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	20	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SECVAR	10	*Securigera varia*	*crown-vetch, purple crown-vetch*	0	0	Introduced	herb	perennial	0	Restricted	*Securigera varia*
SOLCAN	15	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SYMERI	1	*Symphyotrichum ericoides*	*heath aster*	4	FACU	Native	herb	0	0	0	*Symphyotrichum ericoides*
SYMPIL	1	*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TRADUB	1	*Tragopogon dubius*	*fistulous goat's-beard, greater sand goa*	0	0	Introduced	herb	biennial	0	0	*Tragopogon dubius*
VERURT	1	*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Taylor Road Conservancy Summer 2022	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
60	36	24			17.0		2.8		13.2		1.7					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT		*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AMBART		*Ambrosia artemisiifolia*	*annual bur-sage, common ragweed, sho*	0	FACU	Native	herb	annual	0	0	*Ambrosia artemisiifolia*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ASCSYR		*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
BROJAP		*Bromus arvensis*	*Japanese chess*	0	FACU	Introduced	herb	0	0	0	*Bromus arvensis*
CARBLA		*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CENSTO		*Centaurea stoebe*	*Spotted knapweed*	0	0	Introduced	herb	biennial/per	0	Restricted	*Centaurea stoebe*
CIRCAN		*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CONCAN		*Conyza canadensis*	*Canadian horseweed, fleabane, hogwee*	0	FACU	Native	herb	0	0	0	*Conyza canadensis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CONMAJ		*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
DACGLO		*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
EREHIE		*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
EUPVIR		*Euphorbia virgata*	*leafy spurge, wolf's-milk*	0	0	Introduced	herb	0	0	0	*Euphorbia esula*
FRAAME		*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
HYPPER		*Hypericum perforatum*	*common St. John's-wort, Klamath-weed*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Hypericum perforatum*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LOLARU		*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MELOFF		*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OXASTR		*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA		*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*
PINRES		*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PLAMAJ		*Plantago major*	*broad-leaved plantain, common plantai*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Plantago major*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEVEL		*Quercus velutina*	*black oak*	5	0	Native	tree	perennial	0	0	*Quercus velutina*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA		*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SECVAR		*Securigera varia*	*crown-vetch, purple crown-vetch*	0	0	Introduced	herb	perennial	0	Restricted	*Securigera varia*
SMIHER		*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SYMERI		*Symphyotrichum ericoides*	*heath aster*	4	FACU	Native	herb	0	0	0	*Symphyotrichum ericoides*
SYMPIL		*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRADUB		*Tragopogon dubius*	*fistulous goat's-beard, greater sand goa*	0	0	Introduced	herb	biennial	0	0	*Tragopogon dubius*
TRIREP		*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*
VERURT		*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Emergent Marsh
ASSESSMENT AREA NAME:	UMU-1 Emergent Marsh	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
37	32	5	31%	29%	20.7	18.1	3.7	3.2	19.2	13.8	3.2	2.3	0.0	0.7	2.3	4.0
													0%	3%	102%	1%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ALISUB	1	*Alisma subcordatum*	*American water-plantain, common wat*	3	OBL	Native	herb	perennial	0	0	*Alisma subcordatum*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
CARBEB	1	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARCRI1	1	*Carex cristatella*	*crested oval sedge, crested sedge*	4	FACW	Native	herb	perennial	0	0	*Carex cristatella*
CARPEL	2	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARSTI	1	*Carex stipata*	*common fox sedge, owl-fruit sedge*	2	OBL	Native	herb	perennial	0	0	*Carex stipata*
CARSTR	5	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CARVUL	1	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRARV	3	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
ELEERY	1	*Eleocharis erythropoda*	*bald spike-rush*	3	0	Native	herb	perennial	0	0	*Eleocharis erythropoda*
EUTMAC	1	*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
GEUALE	1	*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
HELGRO	2	*Helianthus grosseserratus*	*saw-tooth sunflower*	2	FACW	Native	herb	perennial	0	0	*Helianthus grosseserratus*
HYPPYR	1	*Hypericum ascyron*	*giant St. John's-wort, great St. John's-w*	6	FAC	Native	herb	0	0	0	*Hypericum ascyron ssp. pyramidatum*
JUNDUD	2	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LEEORY	1	*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
LEMMIN	1	*Lemna minor*	*common duckweed, lesser duckweed, sı*	4	OBL	Native	aquatic	perennial	0	0	*Lemna minor*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYTALA	1	*Lythrum alatum*	*winged loosestrife, winged lythrum*	6	OBL	Native	herb	0	0	0	*Lythrum alatum*
ONOSEN	1	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
PERAMP	1	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PHAARU	5	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PYCVIR	1	*Pycnanthemum virginianum*	*common mountain mint, Virginia mouni*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
RORPAL	1	*Rorippa palustris*	*bog yellow-cress, common yellow-cress*	3	OBL	Native	herb	annual/bienr	0	0	*Rorippa palustris*
RUBALL	1	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SCHTAB	1	*Schoenoplectus tabernaemontani*	*great bulrush, soft-stem bulrush*	4	OBL	Native	herb	perennial	0	0	*Schoenoplectus tabernaemontani*
SCIATR	2	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SOLCAN	2	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	2	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SYMFIR	10	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
TYPANG	20	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT	25	*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	Southern Hardwood Swamp	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
42	34	8	50%	25%	19.0	21.9	3.3	3.8	17.1	18.2	2.6	2.8	4.5	1.0	1.9	0.0
													78%	26%	96%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI	3	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGIG	2	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	3	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
BOECYL	3	*Boehmeria cylindrica*	*small-spike false nettle*	6	OBL	Native	herb	perennial	0	0	*Boehmeria cylindrica*
CARBEB	5	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARSCO	1	*Carex scoparia*	*broom sedge, lance-fruited oval sedge*	4	FACW	Native	herb	perennial	0	0	*Carex scoparia*
CARSTI	1	*Carex stipata*	*common fox sedge, owl-fruit sedge*	2	OBL	Native	herb	perennial	0	0	*Carex stipata*
CARVUL	2	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CAROVAT	12	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CIRARV	2	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CORRAC	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
EQUARV	3	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
EREHIE	1	*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
FRAPEN	3	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	3	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GLYSTR	5	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
HACVIR	2	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
IMPCAP	5	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PARQUI	5	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERSAG	3	*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PHAARU	30	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEMAC	20	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHACAT	1	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROSMUL	10	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	3	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SALBEB	15	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALINT	5	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	10	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SOLDUL	2	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLGIG	8	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
THEPAL	1	*Thelypteris palustris*	*eastern marsh fern, marsh fern*	7	OBL/FACW	Native	herb	perennial	0	0	*Thelypteris palustris*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TYPANG	1	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
VITRIP	7	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (East)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
52	41	11	29%	24%	21.1	20.6	3.3	3.2	18.7	17.5	2.6	2.4	3.8	2.7	1.9	0.0
													14%	48%	57%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
CALSEP	1	*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARBEB	1	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARNOR	1	*Carex normalis*	*greater straw sedge, intermediate sedg*	5	FACW	Native	herb	perennial	0	0	*Carex normalis*
CARSTI	1	*Carex stipata*	*common fox sedge, owl-fruit sedge*	2	OBL	Native	herb	perennial	0	0	*Carex stipata*
CARVUL	1	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CORAMO	10	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORRAC	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	25	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELEPAL	1	*Eleocharis palustris*	*common spike-rush*	6	OBL	Native	herb	perennial	0	0	*Eleocharis palustris*
ELYTREP	1	*Elymus repens*	*couchgrass, creeping quackgrass, quack*	0	FACU	Introduced	herb	0	0	0	*Elymus repens*
ERIPHI	1	*Erigeron philadelphicus*	*common fleabane, marsh fleabane, Phil*	2	FACW/FAC	Native	herb	biennial/per	0	0	*Erigeron philadelphicus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
EUTGRA	1	*Euthamia graminifolia*	*common flat-topped goldenrod, grass-le*	4	FACW/FAC	Native	herb	perennial	0	0	*Euthamia graminifolia*
GEUALE	1	*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
GLYSTR	1	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	2	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LONTAT	1	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LOTCOR	1	*Lotus corniculatus*	*bird's-foot deer-vetch, bird's-foot trefoil*	0	FACU	Introduced	herb	perennial	0	Non-Restricted	*Lotus corniculatus*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
MALPUM	1	*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERAMP	1	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PHAARU	15	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA	1	*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*
POAPAL	1	*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POTNOR	1	*Potentilla norvegica*	*Norwegian cinquefoil, rough cinquefoil,*	0	FAC	Native	herb	annual/perei	0	0	*Potentilla norvegica*
QUEELL	1	*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
ROSMUL	5	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
SALAMY	2	*Salix amygdaloides*	*peach-leaved willow*	4	FACW	Native	tree	perennial	0	0	*Salix amygdaloides*
SALBEB	1	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALDIS	1	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT	5	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	5	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SCIPEN	1	*Scirpus pendulus*	*rufous bulrush*	4	OBL	Native	herb	perennial	0	0	*Scirpus pendulus*
SOLCAN	3	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	2	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SPAPEC	1	*Spartina pectinata*	*prairie cord grass, slough grass*	5	FACW	Native	herb	perennial	0	0	*Spartina pectinata*
SYMFIR	2	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (North)	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
36	27	9	34%	21%	17.1	15.8	3.3	3.0	14.8	14.4	2.5	2.4	3.3	1.4	2.4	0.0
													58%	45%	58%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGRGRY	5	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ARCMIN	3	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BOECYL	3	*Boehmeria cylindrica*	*small-spike false nettle*	6	OBL	Native	herb	perennial	0	0	*Boehmeria cylindrica*
CARBEB	3	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CAROVAT	3	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CORRAC	10	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	5	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
DRYCAR	2	*Dryopteris carthusiana*	*spinulose wood fern, toothed wood fern*	7	FACW	Native	herb	perennial	0	0	*Dryopteris carthusiana*
EQUARV	1	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
FRAPEN	7	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	3	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
IMPCAP	5	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	5	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONTAT	8	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*

Wisconsin Floristic Quality Calculator Version 1.3.17

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	11	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERVIR	3	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU	10	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	10	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	2	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	2	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROSMUL	7	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBOCC	3	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALINT	10	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	8	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SOLGIG	5	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SYMLAT	3	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
VITRIP	7	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (North)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
40	25	15	68%	57%	15.6	15.6	3.1	3.1	12.3	8.5	2.0	1.3	2.7	1.8	1.2	0.0
													3%	15%	101%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR	2	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
CARPEL	1	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARSTI	1	*Carex stipata*	*common fox sedge, owl-fruit sedge*	2	OBL	Native	herb	perennial	0	0	*Carex stipata*
CARVUL	1	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRARV	2	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORRAC	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
ECHLOB	1	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELEACI	1	*Eleocharis acicularis*	*needle spike-rush*	5	OBL	Native	herb	perennial	0	0	*Eleocharis acicularis*
ERISTR	1	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
EUTGRA	1	*Euthamia graminifolia*	*common flat-topped goldenrod, grass-le*	4	FACW/FAC	Native	herb	perennial	0	0	*Euthamia graminifolia*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
HYPPER	1	*Hypericum perforatum*	*common St. John's-wort, Klamath-weed*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Hypericum perforatum*

Wisconsin Floristic Quality Calculator Version 1.3.17

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
JUGNIG	2	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LACSER	1	*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LONTAT	4	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERAMP	1	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERHYD	1	*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*
PERMAC	2	*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PHAARU	35	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PLAMAJ	1	*Plantago major*	*broad-leaved plantain, common plantai*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Plantago major*
POAPAL	1	*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA	13	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
ROSMUL	2	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUMCRI	2	*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCIATR	2	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SOLCAN	10	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	2	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
SYMFIR	8	*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMNOV	1	*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
VIBLEN	5	*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (Southcentral)	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
15	12	3	59%	51%	13.3	13.7	3.8	4.0	11.9	7.5	3.1	1.9	6.4	0.0	1.7	0.0
													7%	0%	109%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
BOECYL	5	*Boehmeria cylindrica*	*small-spike false nettle*	6	OBL	Native	herb	perennial	0	0	*Boehmeria cylindrica*
CARVUL	3	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRARV	4	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
GLYSTR	10	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
IMPCAP	5	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
LYCAME	2	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
PERSAG	7	*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PHAARU	50	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
SALBEB	5	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SCICYP	2	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SOLDUL	5	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLGIG	8	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*
URTDIO	3	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	UMU-2 Oak Woodland	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
67	53	14	33%	21%	25.7	29.2	3.5	4.0	22.8	27.2	2.8	3.3	4.8	1.8	2.6	0.0
													65%	33%	61%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI	1	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGRY	2	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANECAN	1	*Anemone canadensis*	*Canada anemone, Canadian anemone, r*	4	FACW	Native	herb	perennial	0	0	*Anemone canadensis*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ARITRI	1	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
ATHFIL	1	*Athyrium filix-femina*	*common lady fern, lady fern*	5	FAC	Native	herb	perennial	0	0	*Athyrium filix-femina*
BOECYL	1	*Boehmeria cylindrica*	*small-spike false nettle*	6	OBL	Native	herb	perennial	0	0	*Boehmeria cylindrica*
CALSEP	1	*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARNOR	2	*Carex normalis*	*greater straw sedge, intermediate sedge*	5	FACW	Native	herb	perennial	0	0	*Carex normalis*
CARROSE	1	*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARTENE	1	*Carex tenera*	*marsh straw sedge, narrow-leaved oval*	4	FACW/FAC	Native	herb	perennial	0	0	*Carex tenera*
CARVUL	1	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CAROVAT	25	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CIRCAN	2	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRARV	5	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORRAC	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	5	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL	1	*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ECHLOB	1	*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELYHYS	2	*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYVIL	1	*Elymus villosus*	*downy wild-rye, hairy wild-rye, silky wil*	6	FACU	Native	herb	0	0	0	*Elymus villosus*
EPICOL	1	*Epilobium coloratum*	*cinnamon willow-herb, eastern willow-h*	3	OBL	Native	herb	perennial	0	0	*Epilobium coloratum*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLYSTR	1	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
IMPCAP	2	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LACCAN	1	*Lactuca canadensis*	*Canada lettuce, tall lettuce, tall wild lett*	2	FACU	Native	herb	annual/bienr	0	0	*Lactuca canadensis*
LAPCAN	2	*Laportea canadensis*	*Canadian wood-nettle*	4	FACW	Native	herb	perennial	0	0	*Laportea canadensis*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYCAME	1	*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
ONOSEN	1	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERSAG	1	*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PERVIR	1	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
POAPAL	1	*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POPALB	1	*Populus alba*	*silver poplar, white poplar*	0	0	Introduced	tree	perennial	0	Restricted	*Populus alba*
POTSIM	1	*Potentilla simplex*	*common cinquefoil, old-field five-finger:*	2	FACU	Native	herb	perennial	0	0	*Potentilla simplex*
PRUSER	2	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	5	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	15	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	10	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS	1	*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROSMUL	10	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	2	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SANODO	1	*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLDUL	1	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD	2	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIHYB	1	*Trifolium hybridum*	*alsike clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium hybridum*
TRIREP	1	*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
VIBOPU	3	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	Orchard, Pasture, & Conifer Plantation
ASSESSMENT AREA NAME:	UMU-3 Orchard & Conifer Plantation	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
37	25	12	107%	42%	14.4	14.0	2.9	2.8	11.8	10.3	1.9	1.7	2.1	1.8	1.4	0.0
													85%	25%	146%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	15	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT	5	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGIG	2	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	3	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
BROINE	3	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CARBEB	2	*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*
CARVUL	3	*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRCAN	5	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRARV	3	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
DRYCAR	1	*Dryopteris carthusiana*	*spinulose wood fern, toothed wood fern*	7	FACW	Native	herb	perennial	0	0	*Dryopteris carthusiana*
ERIANN	2	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	5	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	2	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GEUCAN	3	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	2	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
JUGNIG	10	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*

Wisconsin Floristic Quality Calculator Version 1.3.17

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MALPUM	20	*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
ONOSEN	2	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PASSAT	10	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERAMP	3	*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERVIR	10	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU	35	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA	8	*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*
PICABI	15	*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PINRES	20	*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PRUVUL	3	*Prunella vulgaris*	*heal-all, lawn prunella, self-heal*	1	FAC	Native	herb	perennial	0	0	*Prunella vulgaris*
ROSMUL	3	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBOCC	15	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SOLCAN	15	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
URTDIO	5	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITRIP	15	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Summer 2022	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons and John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/12/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
148	113	35			37.7		3.5		33.0		2.7					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI		*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALISUB		*Alisma subcordatum*	*American water-plantain, common wat*	3	OBL	Native	herb	perennial	0	0	*Alisma subcordatum*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANECAN		*Anemone canadensis*	*Canada anemone, Canadian anemone,*	4	FACW	Native	herb	perennial	0	0	*Anemone canadensis*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ARITRI		*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
ASCINC		*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR		*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
ATHFIL		*Athyrium filix-femina*	*common lady fern, lady fern*	5	FAC	Native	herb	perennial	0	0	*Athyrium filix-femina*
BOECYL		*Boehmeria cylindrica*	*small-spike false nettle*	6	OBL	Native	herb	perennial	0	0	*Boehmeria cylindrica*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CALSEP		*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARBEB		*Carex bebbii*	*Bebb's oval sedge, Bebb's sedge*	4	OBL	Native	herb	perennial	0	0	*Carex bebbii*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARBLA		*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARCRI1		*Carex cristatella*	*crested oval sedge, crested sedge*	4	FACW	Native	herb	perennial	0	0	*Carex cristatella*
CARNOR		*Carex normalis*	*greater straw sedge, intermediate sedg*	5	FACW	Native	herb	perennial	0	0	*Carex normalis*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEL		*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARROSE		*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CARSCO		*Carex scoparia*	*broom sedge, lance-fruited oval sedge*	4	FACW	Native	herb	perennial	0	0	*Carex scoparia*
CARSTI		*Carex stipata*	*common fox sedge, owl-fruit sedge*	2	OBL	Native	herb	perennial	0	0	*Carex stipata*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CARTENE		*Carex tenera*	*marsh straw sedge, narrow-leaved oval*	4	FACW/FAC	Native	herb	perennial	0	0	*Carex tenera*
CARVUL		*Carex vulpinoidea*	*brown fox sedge, fox sedge*	2	FACW/OBL	Native	herb	perennial	0	0	*Carex vulpinoidea*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRCAN		*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORAMO		*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORRAC		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER		*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL		*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
DRYCAR		*Dryopteris carthusiana*	*spinulose wood fern, toothed wood fern*	7	FACW	Native	herb	perennial	0	0	*Dryopteris carthusiana*
ECHLOB		*Echinocystis lobata*	*balsam-apple, wild-cucumber*	2	FACW	Native	herb	annual	0	0	*Echinocystis lobata*
ELAUMB		*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELEACI		*Eleocharis acicularis*	*needle spike-rush*	5	OBL	Native	herb	perennial	0	0	*Eleocharis acicularis*
ELEERY		*Eleocharis erythropoda*	*bald spike-rush*	3	0	Native	herb	perennial	0	0	*Eleocharis erythropoda*
ELEPAL		*Eleocharis palustris*	*common spike-rush*	6	OBL	Native	herb	perennial	0	0	*Eleocharis palustris*
ELYHYS		*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYTREP		*Elymus repens*	*couchgrass, creeping quackgrass, quack*	0	FACU	Introduced	herb	0	0	0	*Elymus repens*
ELYVIL		*Elymus villosus*	*downy wild-rye, hairy wild-rye, silky wil*	6	FACU	Native	herb	0	0	0	*Elymus villosus*
EPICOL		*Epilobium coloratum*	*cinnamon willow-herb, eastern willow-h*	3	OBL	Native	herb	perennial	0	0	*Epilobium coloratum*
EQUARV		*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
EREHIE		*Erechtites hieraciifolius*	*American burn-weed, fireweed*	2	0	Native	herb	annual	0	0	*Erechtites hieraciifolius*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERIPHI		*Erigeron philadelphicus*	*common fleabane, marsh fleabane, Phil*	2	FACW/FAC	Native	herb	biennial/per	0	0	*Erigeron philadelphicus*
ERISTR		*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
EUTGRA		*Euthamia graminifolia*	*common flat-topped goldenrod, grass-le*	4	FACW/FAC	Native	herb	perennial	0	0	*Euthamia graminifolia*
EUTMAC		*Eutrochium maculatum*	*spotted Joe-Pye-weed*	4	OBL	Native	herb	perennial	0	0	*Eutrochium maculatum*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FRAVIR		*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUALE		*Geum aleppicum*	*yellow avens*	3	FACW/FAC	Native	herb	perennial	0	0	*Geum aleppicum*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED		*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
GLYSTR		*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
HACVIR		*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HELGRO		*Helianthus grosseserratus*	*saw-tooth sunflower*	2	FACW	Native	herb	perennial	0	0	*Helianthus grosseserratus*
HYPPER		*Hypericum perforatum*	*common St. John's-wort, Klamath-weed*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Hypericum perforatum*
HYPPYR		*Hypericum ascyron*	*giant St. John's-wort, great St. John's-w*	6	FAC	Native	herb	0	0	0	*Hypericum ascyron ssp. pyramidatum*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD		*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LACCAN		*Lactuca canadensis*	*Canada lettuce, tall lettuce, tall wild lett*	2	FACU	Native	herb	annual/bienr	0	0	*Lactuca canadensis*
LACSER		*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LAPCAN		*Laportea canadensis*	*Canadian wood-nettle*	4	FACW	Native	herb	perennial	0	0	*Laportea canadensis*
LEEORY		*Leersia oryzoides*	*rice cut grass*	3	OBL	Native	herb	perennial	0	0	*Leersia oryzoides*
LEMMIN		*Lemna minor*	*common duckweed, lesser duckweed, sr*	4	OBL	Native	aquatic	perennial	0	0	*Lemna minor*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LOTCOR		*Lotus corniculatus*	*bird's-foot deer-vetch, bird's-foot trefoil*	0	FACU	Introduced	herb	perennial	0	Non-Restricted	*Lotus corniculatus*
LYCAME		*Lycopus americanus*	*American water-horehound, common w*	4	OBL	Native	herb	perennial	0	0	*Lycopus americanus*
LYTALA		*Lythrum alatum*	*winged loosestrife, winged lythrum*	6	OBL	Native	herb	0	0	0	*Lythrum alatum*
MALPUM		*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
ONOSEN		*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
OXASTR		*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT		*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERAMP		*Persicaria amphibia*	*water heart's-ease, water smartweed*	5	OBL	Native	herb	perennial	0	0	*Persicaria amphibia*
PERHYD		*Persicaria hydropiper*	*marsh-pepper smartweed, water-peppe*	0	OBL	Introduced	herb	annual	0	0	*Persicaria hydropiper*
PERMAC		*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PERSAG		*Persicaria sagittata*	*arrow-leaved tearthumb, arrow vine*	6	OBL	Native	herb	annual	0	0	*Persicaria sagittata*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PHLPRA		*Phleum pratense*	*timothy*	0	FACU	Introduced	herb	perennial	0	0	*Phleum pratense*

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PICABI		*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PINRES		*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PLAMAJ		*Plantago major*	*broad-leaved plantain, common plantai*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Plantago major*
POAPAL		*Poa palustris*	*fowl meadow grass, marsh bluegrass*	5	FACW	Native	herb	perennial	0	0	*Poa palustris*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPALB		*Populus alba*	*silver poplar, white poplar*	0	0	Introduced	tree	perennial	0	Restricted	*Populus alba*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POTNOR		*Potentilla norvegica*	*Norwegian cinquefoil, rough cinquefoil,*	0	FAC	Native	herb	annual/perei	0	0	*Potentilla norvegica*
POTSIM		*Potentilla simplex*	*common cinquefoil, old-field five-finger*	2	FACU	Native	herb	perennial	0	0	*Potentilla simplex*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVUL		*Prunella vulgaris*	*heal-all, lawn prunella, self-heal*	1	FAC	Native	herb	perennial	0	0	*Prunella vulgaris*
PYCVIR		*Pycnanthemum virginianum*	*common mountain mint, Virginia moun*	6	FACW	Native	herb	perennial	0	0	*Pycnanthemum virginianum*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEELL		*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS		*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
RORPAL		*Rorippa palustris*	*bog yellow-cress, common yellow-cress*	3	OBL	Native	herb	annual/bienr	0	0	*Rorippa palustris*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
RUMCRI		*Rumex crispus*	*curly dock, sour dock*	0	FAC	Introduced	herb	perennial	0	0	*Rumex crispus*
SALAMY		*Salix amygdaloides*	*peach-leaved willow*	4	FACW	Native	tree	perennial	0	0	*Salix amygdaloides*
SALBEB		*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALDIS		*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANODO		*Sanicula odorata*	*clustered black snakeroot*	3	FAC	Native	herb	perennial	0	0	*Sanicula odorata*
SCHTAB		*Schoenoplectus tabernaemontani*	*great bulrush, soft-stem bulrush*	4	OBL	Native	herb	perennial	0	0	*Schoenoplectus tabernaemontani*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCICYP		*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SCIPEN		*Scirpus pendulus*	*rufous bulrush*	4	OBL	Native	herb	perennial	0	0	*Scirpus pendulus*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLDUL		*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLGIG		*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*

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SPAPEC		*Spartina pectinata*	*prairie cord grass, slough grass*	5	FACW	Native	herb	perennial	0	0	*Spartina pectinata*
SYMFIR		*Symphyotrichum firmum*	*glossy-leaved aster*	6	OBL	Native	herb	perennial	0	0	*Symphyotrichum firmum*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
SYMNOV		*Symphyotrichum novae-angliae*	*New England aster*	3	FACW	Native	herb	perennial	0	0	*Symphyotrichum novae-angliae*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
THEPAL		*Thelypteris palustris*	*eastern marsh fern, marsh fern*	7	OBL/FACW	Native	herb	perennial	0	0	*Thelypteris palustris*
TORJAP		*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIHYB		*Trifolium hybridum*	*alsike clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium hybridum*
TRIREP		*Trifolium repens*	*white clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium repens*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT		*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VERHAS		*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VIBLEN		*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Woodland Commons Conservancy Summer 2022	PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	WMU-1 Southern Dry-mesic Forest	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
64	50	14	55%	22%	24.7	26.7	3.5	3.8	21.9	24.9	2.7	3.1	4.1	1.5	2.5	0.0
													136%	63%	53%	0%

:Total Cover

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ACENEG	3	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGEALT	2	*Ageratina altissima*	*white snakeroot*	1	FACU	Native	herb	perennial	0	0	*Ageratina altissima*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEQUI	2	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ANEVIR	1	*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARITRI	1	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
BROINE	1	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARROSE	2	*Carex rosea*	*curly-styled wood sedge, rosy sedge, ste*	4	FACU	Native	herb	perennial	0	0	*Carex rosea*
CAROVAT	1	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CELOCC	3	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CENSTO	1	*Centaurea stoebe*	*Spotted knapweed*	0	0	Introduced	herb	biennial/per	0	Restricted	*Centaurea stoebe*
CIRCAN	5	*Circaea canadensis*	*broad-leaf enchanter's-nightshade*	2	FACU	Native	herb	perennial	0	0	*Circaea canadensis*
CONMAJ	1	*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
CORAMO	1	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAAME	3	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	10	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	2	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC	1	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN	3	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HYPPUN	1	*Hypericum punctatum*	*spotted St. John's-wort*	4	FAC	Native	herb	perennial	0	0	*Hypericum punctatum*
JUGNIG	10	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONRET	1	*Lonicera reticulata*	*grape honeysuckle, yellow honeysuckle*	6	0	Native	shrub	perennial	0	0	*Lonicera reticulata*
LONTAT	7	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	4	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MELOFF	1	*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	2	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
OXASTR	1	*Oxalis stricta*	*common yellow oxalis, tall wood-sorrel*	0	FACU	Native	herb	perennial	0	0	*Oxalis stricta*
PARQUI	5	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL	3	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POPGRA	1	*Populus grandidentata*	*big-tooth aspen, large-toothed aspen*	3	FACU	Native	tree	perennial	0	0	*Populus grandidentata*
POTREC	1	*Potentilla recta*	*rough-fruited cinquefoil, sulphur cinque*	0	0	Introduced	herb	perennial	0	0	*Potentilla recta*
PRUSER	42	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	30	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUEVEL	9	*Quercus velutina*	*black oak*	5	0	Native	tree	perennial	0	0	*Quercus velutina*
RHACAT	31	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	10	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCRMAR	1	*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SOLGIG	1	*Solidago gigantea*	*giant goldenrod*	3	FACW	Native	herb	perennial	0	0	*Solidago gigantea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
SYMPIL	1	*Symphyotrichum pilosum*	*frost aster*	1	FACU	Native	herb	perennial	0	0	*Symphyotrichum pilosum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TILAME	1	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VIBOPU	5	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, ho*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	5	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*
ZANAME	5	*Zanthoxylum americanum*	*common prickly-ash, northern prickly-as*	3	FACU	Native	shrub	perennial	0	0	*Zanthoxylum americanum*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Yahara River Conservancy Summer 2022	PLANT COMMUNITY:	Floodplain Forest & Emergent Marsh
ASSESSMENT AREA NAME:	YMU-1 Floodplain Forest & Emergent Marsh	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	7/19/2022
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
40	23	17	70%	34%	13.3	11.2	2.8	2.3	10.1	9.8	1.6	1.5	2.2	1.7	0.8	0.0
													85%	36%	85%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ASCINC	1	*Asclepias incarnata*	*swamp milkweed*	5	OBL	Native	herb	perennial	0	0	*Asclepias incarnata*
ASCSYR	1	*Asclepias syriaca*	*common milkweed, silkweed*	1	FACU/UPL	Native	herb	perennial	0	0	*Asclepias syriaca*
CALSEP	5	*Calystegia sepium*	*hedge bindweed, hedge false bindweed*	2	FAC	Native	herb	perennial	0	0	*Calystegia sepium*
CARLAC	1	*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CICINT	1	*Cichorium intybus*	*blue-sailors, chicory*	0	FACU	Introduced	herb	perennial	0	0	*Cichorium intybus*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORAMO	5	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORSER	7	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ECHCRU	1	*Echinochloa crus-galli*	*barnyard grass, large barnyard grass*	0	FACW/FAC	Introduced	herb	annual	0	0	*Echinochloa crus-galli*
FRAPEN	6	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	2	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
HORJUB	1	*Hordeum jubatum*	*foxtail barley, squirrel-tail grass*	0	FAC	Introduced	herb	perennial	0	0	*Hordeum jubatum*
IMPCAP	10	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LACSER	1	*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LONTAT	8	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSNUM	2	*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERMAC	3	*Persicaria maculosa*	*heart's-ease, spotted lady's-thumb*	0	FACW/FAC	Introduced	herb	annual	0	0	*Persicaria maculosa*
PHAARU	15	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	60	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
RHACAT	10	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	2	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALDIS	10	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALNIG	7	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	3	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SOLDUL	2	*Solanum dulcamara*	*bittersweet nightshade*	0	FAC	Introduced	herb	perennial	0	0	*Solanum dulcamara*
SOLCAN	4	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
TYPANG	20	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
VERHAS	1	*Verbena hastata*	*blue vervain, simpler's-joy, swamp verb*	3	FACW	Native	herb	biennial/pere	0	0	*Verbena hastata*
VERURT	1	*Verbena urticifolia*	*nettle-leaved vervain, white vervain*	2	FAC	Native	herb	perennial	0	0	*Verbena urticifolia*
VITRIP	4	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Babcock Conservancy Spring 2023	PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	BMU-1 Southern Mesic Forest	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
16	14	2	2%	1%	20.8	20.4	5.6	5.4	19.5	21.7	4.9	5.4	4.7	4.0	6.4	0.0
													130%	2%	98%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARU	75	*Acer saccharum*	*hard maple, sugar maple*	5	FACU	Native	tree	perennial	0	0	*Acer saccharum*
ALLTRI	2	*Allium tricoccum*	*ramp, wild leek*	6	FACU	Native	herb	perennial	0	0	*Allium tricoccum*
CARCON	35	*Cardamine concatenata*	*cut-leaved toothwort, five-parted tooth*	6	FACU	Native	herb	annual/perei	0	0	*Cardamine concatenata*
CELOCC	27	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CLAVIR	1	*Claytonia virginica*	*spring-beauty, Virginia spring-beauty*	6	FACU	Native	herb	perennial	0	0	*Claytonia virginica*
ERYALB	45	*Erythronium albidum*	*small white fawn-lily, white dog-tooth v*	7	FACU	Native	herb	perennial	0	0	*Erythronium albidum*
FRAPEN	2	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
HYDVIR	1	*Hydrophyllum virginianum*	*John's-cabbage, Shawnee-salad, Virgini*	4	FAC	Native	herb	perennial	0	0	*Hydrophyllum virginianum*
LONTAT	1	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
PODPEL	5	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
PRUSER	1	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
SANGCAN	1	*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
THATHA	7	*Thalictrum thalictroides*	*rue-anemone, wind-flower*	7	FACU	Native	herb	perennial	0	0	*Thalictrum thalictroides*
TILAME	25	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
VIBOPU	1	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Babcock Conservancy Spring 2023	PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	BMU-2 Southern Hardwood Swamp & Emergent Marsh	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
39	30	9	24%	31%	22.8	17.4	4.2	3.2	20.0	14.9	3.2	2.4	2.5	2.3	2.4	0.0
													31%	16%	30%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	9	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ANEQUI	1	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CARCON	1	*Cardamine concatenata*	*cut-leaved toothwort, five-parted tooth*	6	FACU	Native	herb	annual/pere	0	0	*Cardamine concatenata*
CARSPR	1	*Carex sprengelii*	*long-beaked sedge, Sprengel's sedge*	6	FAC	Native	herb	perennial	0	0	*Carex sprengelii*
CATSPE	1	*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELOCC	3	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CORAMO	1	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERYALB	2	*Erythronium albidum*	*small white fawn-lily, white dog-tooth v*	7	FACU	Native	herb	perennial	0	0	*Erythronium albidum*
FRAAME	1	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	3	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HEMFUL	2	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
HYDVIR	1	*Hydrophyllum virginianum*	*John's-cabbage, Shawnee-salad, Virgini*	4	FAC	Native	herb	perennial	0	0	*Hydrophyllum virginianum*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
IMPCAP	2	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSCIL	1	*Lysimachia ciliata*	*fringed loosestrife*	5	FACW	Native	herb	perennial	0	0	*Lysimachia ciliata*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
PHAARU	7	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PODPEL	1	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEBIC	1	*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	4	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
SALBEB	1	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALNIG	1	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
THATHA	1	*Thalictrum thalictroides*	*rue-anemone, wind-flower*	7	FACU	Native	herb	perennial	0	0	*Thalictrum thalictroides*
TILAME	3	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	1	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Babcock Conservancy Spring 2023	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
44	35	9			25.5		4.3		22.8		3.4					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARU		*Acer saccharum*	*hard maple, sugar maple*	5	FACU	Native	tree	perennial	0	0	*Acer saccharum*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLTRI		*Allium tricoccum*	*ramp, wild leek*	6	FACU	Native	herb	perennial	0	0	*Allium tricoccum*
ANEQUI		*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CARCON		*Cardamine concatenata*	*cut-leaved toothwort, five-parted tooth*	6	FACU	Native	herb	annual/perei	0	0	*Cardamine concatenata*
CARSPR		*Carex sprengelii*	*long-beaked sedge, Sprengel's sedge*	6	FAC	Native	herb	perennial	0	0	*Carex sprengelii*
CATSPE		*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CLAVIR		*Claytonia virginica*	*spring-beauty, Virginia spring-beauty*	6	FACU	Native	herb	perennial	0	0	*Claytonia virginica*
CORAMO		*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERYALB		*Erythronium albidum*	*small white fawn-lily, white dog-tooth v*	7	FACU	Native	herb	perennial	0	0	*Erythronium albidum*
FRAAME		*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HEMFUL		*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
HYDVIR		*Hydrophyllum virginianum*	*John's-cabbage, Shawnee-salad, Virgini*	4	FAC	Native	herb	perennial	0	0	*Hydrophyllum virginianum*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEOCAR		*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSCIL		*Lysimachia ciliata*	*fringed loosestrife*	5	FACW	Native	herb	perennial	0	0	*Lysimachia ciliata*
MAIRAC		*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEBIC		*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME		*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
SALBEB		*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SANGCAN		*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
THATHA		*Thalictrum thalictroides*	*rue-anemone, wind-flower*	7	FACU	Native	herb	perennial	0	0	*Thalictrum thalictroides*
TILAME		*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP		*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Emergent Marsh
ASSESSMENT AREA NAME:	GMU-1A Emergent Marsh (South)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
4	1	3	38%	88%	7.0	7.0	7.0	7.0	3.5	1.6	1.8	0.8	0.0	0.0	0.9	0.0
													0%	2%	41%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARSTR	5	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PHAARU	35	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
TYPANG	1	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1A Southern Hardwood Swamp	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
28	18	10	46%	35%	11.3	10.1	2.7	2.4	9.1	8.2	1.7	1.5	2.3	0.7	0.9	0.0
													63%	22%	46%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	30	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AGRGIG	5	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
CARSTR	1	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CORFOE	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	1	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
ERIANN	2	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONTAT	10	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSNUM	1	*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MALPUM	1	*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
PHAARU	20	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	15	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
RHACAT	3	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROSMUL	3	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
SALDIS	6	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT	2	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	10	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SYMLAN	2	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT	2	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TRIPRA	1	*Trifolium pratense*	*red clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium pratense*
VIOSOR	2	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Wet Meadow & Wet-mesic Prairie
ASSESSMENT AREA NAME:	GMU-1A Wet Meadow	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:				
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic	
26	17	9	61%	58%	14.6	20.1	3.5	4.9	11.8	10.4	2.3	2.0	2.0	0.6	2.8	0.0	
													2%	36%	67%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
CALCAN	2	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARPEL	2	*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARSTR	20	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CICMAC	1	*Cicuta maculata*	*common water-hemlock, spotted water*	6	OBL	Native	herb	perennial	0	0	*Cicuta maculata*
CORFOE	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	2	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
LONTAT	20	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSNUM	1	*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
PACPLA	1	*Packera plattensis*	*Platte groundsel, prairie groundsel, prai*	6	FACU	Native	herb	biennial/per	Special concern	0	*Packera plattensis*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PHAARU	30	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POPDEL	1	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	1	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
THADAS	1	*Thalictrum dasycarpum*	*purple meadow-rue, tall meadow-rue*	4	FACW	Native	herb	perennial	0	0	*Thalictrum dasycarpum*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Emergent Marsh & Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1B Emergent Marsh & Southern Hardwood Swamp (North)	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
28	16	12	27%	49%	10.5	15.0	2.6	3.8	7.9	10.1	1.5	1.9	2.3	2.8	1.7	0.0
													9%	4%	42%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	1	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGIG	3	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
CARSTR	8	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
DACGLO	1	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HEMFUL	1	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PHAARU	10	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POAPRA	5	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	2	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
RANREC	1	*Ranunculus recurvatus*	*blisterwort, hooked buttercup*	5	FACW	Native	herb	perennial	0	0	*Ranunculus recurvatus*
ROBPSE	1	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALDIS	1	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALNIG	2	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	3	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TYPANG	1	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2A Mesic Prairie	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
34	17	17	54%	64%	12.9	10.3	3.1	2.5	9.1	6.3	1.6	1.1	4.2	1.0	0.7	0.0
													6%	44%	34%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGRGIG	2	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CORFOE	10	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DACGLO	2	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR	2	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
DUCIND	1	*Duchesnea indica*	*false strawberry, Indian strawberry*	0	FACU	Introduced	herb	perennial	0	0	*Duchesnea indica*
ERISTR	2	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
LONTAT	20	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSNUM	1	*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PHAARU	3	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA	7	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PRUSER	1	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEELL	1	*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RANABO	1	*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/per	0	0	*Ranunculus abortivus*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROSMUL	3	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	2	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SYMLAT	2	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TRIPRA	1	*Trifolium pratense*	*red clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium pratense*
VERTHA	1	*Verbascum thapsus*	*common mullein, flannel plant, giant m*	0	UPL	Introduced	herb	biennial	0	0	*Verbascum thapsus*
VIBDEN	1	*Viburnum dentatum*	*southern arrow-wood*	0	FAC	Introduced	shrub	perennial	0	0	*Viburnum dentatum*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITRIP	1	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Shrub-invaded Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2B Invaded Mesic Prairie	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:				
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic	
22	15	7	48%	39%	10.6	10.5	2.7	2.7	8.7	7.7	1.9	1.6	4.5	1.9	0.7	0.0	
													6%	75%	41%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG	3	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	2	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
BROINE	5	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CORFOE	35	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN	2	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
LONTAT	20	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	10	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA	7	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
QUEMAC	1	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHUGLA	3	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBALL	5	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
SALHUM	10	*Salix humilis*	*prairie willow, upland willow*	6	FACU	Native	shrub	perennial	0	0	*Salix humilis*
SYMLAT	2	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
VIBDEN	2	*Viburnum dentatum*	*southern arrow-wood*	0	FAC	Introduced	shrub	perennial	0	0	*Viburnum dentatum*
VITAES	2	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	6	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3A Southern Mesic Forest (South)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
23	12	11	60%	39%	10.4	2.0	3.0	0.6	7.5	1.7	1.6	0.3	0.2	0.1	1.3	0.0
													82%	47%	23%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	75	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ALLPET	2	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CRYCAN	1	*Cryptotaenia canadensis*	*Canadian honewort, white chervil*	4	FAC	Native	herb	perennial	0	0	*Cryptotaenia canadensis*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HEMFUL	1	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	5	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT	40	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSNUM	1	*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
ONOSEN	1	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
PHAARU	6	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
RANHIS	1	*Ranunculus hispidus*	*bristly buttercup, hispid buttercup, roug*	6	FAC	Native	herb	perennial	0	0	*Ranunculus hispidus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
SAMCAN	2	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCRMAR	1	*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, ho*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3B Southern Mesic Forest (North)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
40	30	10	40%	19%	19.7	17.8	3.6	3.3	17.1	16.7	2.7	2.6	3.1	1.0	1.8	0.0
													149%	19%	45%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	35	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ALLPET	2	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEVIR	1	*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
CAROVAT	32	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN	2	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CELOCC	1	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
ELYVIR	2	*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
FLOPRO	2	*Floerkea proserpinacoides*	*false mermaid, false mermaid-weed*	8	FACW/FAC	Native	herb	annual	0	0	*Floerkea proserpinacoides*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	2	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HESMAT	1	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
IMPCAP	2	*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	4	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PARQUI	25	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERVIR	1	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PHAARU	15	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PODPEL	1	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL	6	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POTSIM	1	*Potentilla simplex*	*common cinquefoil, old-field five-finger:*	2	FACU	Native	herb	perennial	0	0	*Potentilla simplex*
PRUSER	25	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR	1	*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB	1	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	10	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RANHIS	1	*Ranunculus hispidus*	*bristly buttercup, hispid buttercup, roug*	6	FAC	Native	herb	perennial	0	0	*Ranunculus hispidus*
RHACAT	7	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROBPSE	5	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	5	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	3	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Grandview Conservancy Spring 2023	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:				
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic	
96	65	31			29.0		3.6		23.9		2.4						
													0%	0%	0%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI		*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEVIR		*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BARVUL		*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARBLA		*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEL		*Carex pellita*	*broad-leaved woolly sedge*	4	OBL	Native	herb	perennial	0	0	*Carex pellita*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CICMAC		*Cicuta maculata*	*common water-hemlock, spotted water*	6	OBL	Native	herb	perennial	0	0	*Cicuta maculata*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORFOE		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER		*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRYCAN		*Cryptotaenia canadensis*	*Canadian honewort, white chervil*	4	FAC	Native	herb	perennial	0	0	*Cryptotaenia canadensis*
DACGLO		*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
DUCIND		*Duchesnea indica*	*false strawberry, Indian strawberry*	0	FACU	Introduced	herb	perennial	0	0	*Duchesnea indica*
ELAUMB		*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELYVIR		*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERISTR		*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
FLOPRO		*Floerkea proserpinacoides*	*false mermaid, false mermaid-weed*	8	FACW/FAC	Native	herb	annual	0	0	*Floerkea proserpinacoides*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR		*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED		*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HEMFUL		*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
HESMAT		*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/pere	0	Restricted	*Hesperis matronalis*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LEOCAR		*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
LYSNUM		*Lysimachia nummularia*	*creeping-Charlie, creeping-Jennie, mone*	0	FACW	Introduced	herb	perennial	0	Restricted	*Lysimachia nummularia*
MALPUM		*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
ONOSEN		*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
PACPLA		*Packera plattensis*	*Platte groundsel, prairie groundsel, prai*	6	FACU	Native	herb	biennial/pere	Special concern	0	*Packera plattensis*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT		*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/pere	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POTSIM		*Potentilla simplex*	*common cinquefoil, old-field five-finger*	2	FACU	Native	herb	perennial	0	0	*Potentilla simplex*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR		*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEELL		*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RANABO		*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/per	0	0	*Ranunculus abortivus*
RANHIS		*Ranunculus hispidus*	*bristly buttercup, hispid buttercup, roug*	6	FAC	Native	herb	perennial	0	0	*Ranunculus hispidus*
RANREC		*Ranunculus recurvatus*	*blisterwort, hooked buttercup*	5	FACW	Native	herb	perennial	0	0	*Ranunculus recurvatus*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA		*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME		*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROBPSE		*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALDIS		*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALHUM		*Salix humilis*	*prairie willow, upland willow*	6	FACU	Native	shrub	perennial	0	0	*Salix humilis*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCICYP		*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SCRMAR		*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
THADAS		*Thalictrum dasycarpum*	*purple meadow-rue, tall meadow-rue*	4	FACW	Native	herb	perennial	0	0	*Thalictrum dasycarpum*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIPRA		*Trifolium pratense*	*red clover*	0	FACU	Introduced	herb	perennial	0	0	*Trifolium pratense*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
VERTHA		*Verbascum thapsus*	*common mullein, flannel plant, giant m*	0	UPL	Introduced	herb	biennial	0	0	*Verbascum thapsus*
VIBDEN		*Viburnum dentatum*	*southern arrow-wood*	0	FAC	Introduced	shrub	perennial	0	0	*Viburnum dentatum*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Indian Mound/Thrun Marsh Conservancies Spring 2023	PLANT COMMUNITY:	Southern Dry-mesic Forest & Southern Mesic Forest
ASSESSMENT AREA NAME:	ITMU-1 Southern Dry-mesic Forest & Southern Mesic Forest	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
61	49	12	29%	13%	29.9	29.2	4.3	4.2	26.8	28.9	3.4	3.7	4.2	1.4	4.0	0.0
													151%	38%	33%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACEPLA	1	*Acer platanoides*	*Norway maple*	0	UPL	Introduced	tree	perennial	0	Caution	*Acer platanoides*
ALLCAN	1	*Allium canadense*	*meadow garlic, wild garlic, wild onion*	4	FACU	Native	herb	biennial/pere	0	0	*Allium canadense*
ALLTRI	1	*Allium tricoccum*	*ramp, wild leek*	6	FACU	Native	herb	perennial	0	0	*Allium tricoccum*
ANEQUI	1	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ANEVIR	1	*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/pere	0	0	*Barbarea vulgaris*
BETPAP	1	*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
CARPEN	3	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CAROVAT	8	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CATSPE	1	*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELORB	10	*Celastrus orbiculatus*	*Asian bittersweet, Asiatic bittersweet, C*	0	UPL	Introduced	shrub	perennial	0	Restricted	*Celastrus orbiculatus*
CELOCC	23	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CERCAN	1	*Cercis canadensis*	*Eastern redbud*	0	FACU	Introduced	tree	perennial	0	0	*Cercis canadensis*
CORFOE	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
ELYHYS	1	*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYVIL	1	*Elymus villosus*	*downy wild-rye, hairy wild-rye, silky wil*	6	FACU	Native	herb	0	0	0	*Elymus villosus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FRAPEN	5	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC	1	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HYDVIR	1	*Hydrophyllum virginianum*	*John's-cabbage, Shawnee-salad, Virgini*	4	FAC	Native	herb	perennial	0	0	*Hydrophyllum virginianum*
JUGNIG	20	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LIGVUL	1	*Ligustrum vulgare*	*common privet, European privet*	0	FACU	Introduced	shrub	perennial	0	Caution	*Ligustrum vulgare*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	15	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERVIR	1	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/perei	0	0	*Persicaria virginiana*
PICABI	1	*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PINRES	1	*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PODPEL	2	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPTRE	1	*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
PRIMEA	1	*Primula meadia*	*eastern shooting-star, pride-of-Ohio*	7	FACU	Native	herb	0	0	0	*Primula meadia*
PRUSER	6	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	15	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEELL	1	*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	21	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	1	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	1	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	3	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	2	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANGCAN	1	*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
SCRMAR	1	*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
TILAME	16	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TRIREC	1	*Trillium recurvatum*	*bloody butcher, red trillium, reflexed tril*	6	FACU	Native	herb	perennial	0	0	*Trillium recurvatum*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
UVUGRA	1	*Uvularia grandiflora*	*large-flowered bellwort*	7	0	Native	herb	perennial	0	0	*Uvularia grandiflora*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*
ZANAME	2	*Zanthoxylum americanum*	*common prickly-ash, northern prickly-as*	3	FACU	Native	shrub	perennial	0	0	*Zanthoxylum americanum*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Indian Mound/Thrun Marsh Conservancies Spring 2023	PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	ITMU-2 Southern Hardwood Swamp & Emergent Marsh	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
49	35	14	48%	36%	21.3	19.4	3.6	3.3	18.0	16.9	2.6	2.4	2.6	2.5	1.9	0.0
													63%	42%	30%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACEPLA	2	*Acer platanoides*	*Norway maple*	0	UPL	Introduced	tree	perennial	0	Caution	*Acer platanoides*
ACESACCHARI	5	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
CALCAN	1	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARSTR	2	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CELOCC	3	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CORSER	10	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL	1	*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	15	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GEULAC	1	*Geum laciniatum*	*rough avens*	5	FACW	Native	herb	perennial	0	0	*Geum laciniatum*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GLETRI	1	*Gleditsia triacanthos*	*honey locust*	7	FACU/FAC	Native	tree	perennial	0	0	*Gleditsia triacanthos*
HESMAT	1	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/pere	0	Restricted	*Hesperis matronalis*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	5	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LACSER	1	*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LONTAT	10	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	2	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	7	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUAME	2	*Prunus americana*	*American plum, wild plum*	3	UPL	Native	shrub	perennial	0	0	*Prunus americana*
PRUVIR	1	*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEBIC	1	*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	3	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROBPSE	1	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALALB	10	*Salix alba*	*white willow*	0	FACW	Introduced	tree	perennial	0	0	*Salix alba*
SALINT	1	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	1	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	2	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
THUOCC	5	*Thuja occidentalis*	*eastern arborvitae, northern white-cedc*	9	FACW	Native	tree	perennial	0	0	*Thuja occidentalis*
VIBLEN	1	*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VIBOPU	5	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	2	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITAES	2	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Indian Mound/Thrun Marsh Conservancies Spring 2023	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
90	70	20			34.3		4.1		30.3		3.2					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACEPLA		*Acer platanoides*	*Norway maple*	0	UPL	Introduced	tree	perennial	0	Caution	*Acer platanoides*
ACESACCHARI		*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLCAN		*Allium canadense*	*meadow garlic, wild garlic, wild onion*	4	FACU	Native	herb	biennial/pere	0	0	*Allium canadense*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ALLTRI		*Allium tricoccum*	*ramp, wild leek*	6	FACU	Native	herb	perennial	0	0	*Allium tricoccum*
ANEQUI		*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ANEVIR		*Anemone virginiana*	*tall anemone, tall thimbleweed*	5	FACU	Native	herb	perennial	0	0	*Anemone virginiana*
BARVUL		*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/pere	0	0	*Barbarea vulgaris*
BETPAP		*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARBLA		*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CATSPE		*Catalpa speciosa*	*northern catalpa*	0	FACU	Introduced	tree	perennial	0	0	*Catalpa speciosa*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CELORB		*Celastrus orbiculatus*	*Asian bittersweet, Asiatic bittersweet, C*	0	UPL	Introduced	shrub	perennial	0	Restricted	*Celastrus orbiculatus*
CERCAN		*Cercis canadensis*	*Eastern redbud*	0	FACU	Introduced	tree	perennial	0	0	*Cercis canadensis*
CORFOE		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER		*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL		*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
ELYHYS		*Elymus hystrix*	*bottlebrush grass, eastern bottlebrush g*	6	FACU	Native	herb	perennial	0	0	*Elymus hystrix*
ELYVIL		*Elymus villosus*	*downy wild-rye, hairy wild-rye, silky wil*	6	FACU	Native	herb	0	0	0	*Elymus villosus*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC		*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GEULAC		*Geum laciniatum*	*rough avens*	5	FACW	Native	herb	perennial	0	0	*Geum laciniatum*
GLETRI		*Gleditsia triacanthos*	*honey locust*	7	FACU/FAC	Native	tree	perennial	0	0	*Gleditsia triacanthos*
HESMAT		*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
HYDVIR		*Hydrophyllum virginianum*	*John's-cabbage, Shawnee-salad, Virgini*	4	FAC	Native	herb	perennial	0	0	*Hydrophyllum virginianum*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LACSER		*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LIGVUL		*Ligustrum vulgare*	*common privet, European privet*	0	FACU	Introduced	shrub	perennial	0	Caution	*Ligustrum vulgare*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC		*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/pere	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PICABI		*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PINRES		*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POPTRE		*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
PRIMEA		*Primula meadia*	*eastern shooting-star, pride-of-Ohio*	7	FACU	Native	herb	0	0	0	*Primula meadia*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PRUAME		*Prunus americana*	*American plum, wild plum*	3	UPL	Native	shrub	perennial	0	0	*Prunus americana*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR		*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEBIC		*Quercus bicolor*	*swamp white oak*	7	FACW	Native	tree	perennial	0	0	*Quercus bicolor*
QUEELL		*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA		*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME		*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
ROBPSE		*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALALB		*Salix alba*	*white willow*	0	FACW	Introduced	tree	perennial	0	0	*Salix alba*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANGCAN		*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCRMAR		*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
SMIHER		*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
THUOCC		*Thuja occidentalis*	*eastern arborvitae, northern white-cedc*	9	FACW	Native	tree	perennial	0	0	*Thuja occidentalis*
TILAME		*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIREC		*Trillium recurvatum*	*bloody butcher, red trillium, reflexed tril*	6	FACU	Native	herb	perennial	0	0	*Trillium recurvatum*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
UVUGRA		*Uvularia grandiflora*	*large-flowered bellwort*	7	0	Native	herb	perennial	0	0	*Uvularia grandiflora*
VIBLEN		*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*
ZANAME		*Zanthoxylum americanum*	*common prickly-ash, northern prickly-as*	3	FACU	Native	shrub	perennial	0	0	*Zanthoxylum americanum*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Spring 2023	PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	MMU-1 Oak Woodland	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
45	34	11	19%	9%	23.7	28.4	4.1	4.9	20.6	30.3	3.1	4.5	5.0	1.8	4.6	0.0
													136%	25%	53%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ALLCAN	1	*Allium canadense*	*meadow garlic, wild garlic, wild onion*	4	FACU	Native	herb	biennial/per	0	0	*Allium canadense*
ANEQUI	2	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
BETPAP	1	*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
CARPEN	2	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CAROVAT	75	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CELOCC	2	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CORFOE	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ERYALB	20	*Erythronium albidum*	*small white fawn-lily, white dog-tooth v*	7	FACU	Native	herb	perennial	0	0	*Erythronium albidum*
FLOPRO	1	*Floerkea proserpinacoides*	*false mermaid, false mermaid-weed*	8	FACW/FAC	Native	herb	annual	0	0	*Floerkea proserpinacoides*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC	1	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*

Wisconsin Floristic Quality Calculator Version 1.3.17

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HESMAT	1	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/pere	0	Restricted	*Hesperis matronalis*
LONTAT	3	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PARQUI	10	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERVIR	1	*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/pere	0	0	*Persicaria virginiana*
PHAARU	2	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PODPEL	5	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPTRE	1	*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
PRIMEA	1	*Primula meadia*	*eastern shooting-star, pride-of-Ohio*	7	FACU	Native	herb	0	0	0	*Primula meadia*
PRUSER	4	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR	3	*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB	15	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	21	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	1	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	5	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS	1	*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROBPSE	1	*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL	1	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	5	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SANGCAN	1	*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
SCRMAR	1	*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD	3	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, ho*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Spring 2023	PLANT COMMUNITY:	Surrogate Grassland & Mesic Prairie
ASSESSMENT AREA NAME:	MMU-2 Surrogate Grassland & Mesic Prairie	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	This area was recently burned
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
32	21	11	24%	39%	14.4	13.9	3.1	3.0	11.7	10.5	2.1	1.9	3.6	1.9	1.0	0.0
													12%	25%	25%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN	1	*Acer ginnala*	*Amur maple*	0	0	Introduced	tree	perennial	0	Restricted	*Acer ginnala*
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
BETPAP	1	*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
BROINE	5	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CAROVAT	1	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CORAMO	5	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORFOE	10	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DAUCAR	2	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LACSER	1	*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POAPRA	5	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PRUSER	1	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	1	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHACAT	1	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RUBIDA	1	*Rubus idaeus*	*wild red raspberry*	3	FACU/FAC*	Native	shrub	perennial	0	0	*Rubus idaeus*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALINT	1	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
ULMRUB	3	*Ulmus rubra*	*red elm, slippery elm*	4	FAC	Native	tree	perennial	0	0	*Ulmus rubra*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Spring 2023	PLANT COMMUNITY:	Emergent Marsh, Wet Meadow, S. Sedge Meadow, Shrub-carr, S. Hardwood Swamp
ASSESSMENT AREA NAME:	MMU-3 Wetlands	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	This area was recently burned
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
32	23	9	25%	24%	15.2	14.4	3.2	3.0	12.9	14.7	2.3	2.6	2.6	2.6	2.5	0.0
													41%	34%	30%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	4	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CALCAN	3	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARSTR	5	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CORAMO	5	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORFOE	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	10	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POPDEL	8	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALALB	1	*Salix alba*	*white willow*	0	FACW	Introduced	tree	perennial	0	0	*Salix alba*
SALDIS	8	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT	10	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	15	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SYMLAN	2	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBOPU	4	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	1	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Marshwoods Conservancy Spring 2023	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
74	54	20			27.1		3.7		23.1		2.7					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN		*Acer ginnala*	*Amur maple*	0	0	Introduced	tree	perennial	0	Restricted	*Acer ginnala*
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLCAN		*Allium canadense*	*meadow garlic, wild garlic, wild onion*	4	FACU	Native	herb	biennial/per	0	0	*Allium canadense*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEQUI		*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BARVUL		*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
BETPAP		*Betula papyrifera*	*canoe birch, paper birch, white birch*	3	FACU	Native	tree	perennial	0	0	*Betula papyrifera*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORAMO		*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORFOE		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELAUMB		*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERYALB		*Erythronium albidum*	*small white fawn-lily, white dog-tooth v*	7	FACU	Native	herb	perennial	0	0	*Erythronium albidum*
FLOPRO		*Floerkea proserpinacoides*	*false mermaid, false mermaid-weed*	8	FACW/FAC	Native	herb	annual	0	0	*Floerkea proserpinacoides*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR		*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC		*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HESMAT		*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LACSER		*Lactuca serriola*	*compass-plant, prickly lettuce*	0	FACU	Introduced	herb	annual/bienr	0	0	*Lactuca serriola*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PERVIR		*Persicaria virginiana*	*jumpseed, woodland knotweed*	7	FAC	Native	herb	annual/pere	0	0	*Persicaria virginiana*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL		*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POPTRE		*Populus tremuloides*	*aspen, quaking aspen*	2	FAC/FAC*	Native	tree	perennial	0	0	*Populus tremuloides*
PRIMEA		*Primula meadia*	*eastern shooting-star, pride-of-Ohio*	7	FACU	Native	herb	0	0	0	*Primula meadia*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
PRUVIR		*Prunus virginiana*	*chokecherry*	3	FACU	Native	tree	perennial	0	0	*Prunus virginiana*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS		*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROBPSE		*Robinia pseudoacacia*	*black locust*	0	FACU	Introduced	tree	perennial	0	Restricted	*Robinia pseudoacacia*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
RUBIDA		*Rubus idaeus*	*wild red raspberry*	3	FACU/FAC*	Native	shrub	perennial	0	0	*Rubus idaeus*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALALB		*Salix alba*	*white willow*	0	FACW	Introduced	tree	perennial	0	0	*Salix alba*
SALDIS		*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SANGCAN		*Sanguinaria canadensis*	*bloodroot*	6	FACU	Native	herb	perennial	0	0	*Sanguinaria canadensis*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCRMAR		*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
SMIHER		*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
ULMRUB		*Ulmus rubra*	*red elm, slippery elm*	4	FAC	Native	tree	perennial	0	0	*Ulmus rubra*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Siggelkow Road Park Spring 2023	PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	SMU-1 Southern Dry-mesic Forest	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
45	32	13	28%	16%	22.5	26.5	4.0	4.7	18.9	26.3	2.8	3.9	4.8	0.7	3.2	0.0
													111%	22%	38%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ALLTRI	3	*Allium tricoccum*	*ramp, wild leek*	6	FACU	Native	herb	perennial	0	0	*Allium tricoccum*
ANEQUI	2	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
ARITRI	1	*Arisaema triphyllum*	*Indian turnip, Jack-in-the-pulpit*	5	FACW/FAC	Native	herb	perennial	0	0	*Arisaema triphyllum*
CARNUT	1	*Carduus nutans*	*musk thistle, nodding plumeless thistle,*	0	FACU	Introduced	herb	biennial	0	Restricted	*Carduus nutans*
CARPEN	1	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARCOR	1	*Carya cordiformis*	*bitter-nut hickory, pig-nut, yellow-bud h*	6	FACU/FAC	Native	tree	perennial	0	0	*Carya cordiformis*
CAROVAT	8	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CELOCC	26	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CRAMOL	1	*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
FRAAME	1	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	3	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*

Wisconsin Floristic Quality Calculator Version 1.3.17

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GERMAC	5	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HEMFUL	1	*Hemerocallis fulva*	*orange daylily*	0	UPL	Introduced	herb	perennial	0	Caution	*Hemerocallis fulva*
LIGVUL	1	*Ligustrum vulgare*	*common privet, European privet*	0	FACU	Introduced	shrub	perennial	0	Caution	*Ligustrum vulgare*
LONRET	2	*Lonicera reticulata*	*grape honeysuckle, yellow honeysuckle*	6	0	Native	shrub	perennial	0	0	*Lonicera reticulata*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	11	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PODPEL	8	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
PRUSER	15	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	30	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHACAT	12	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	1	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SCRMAR	1	*Scrophularia marilandica*	*carpenter's-square, eastern figwort, late*	4	FACU	Native	herb	perennial	0	0	*Scrophularia marilandica*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TILAME	5	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TRIREC	1	*Trillium recurvatum*	*bloody butcher, red trillium, reflexed tril*	6	FACU	Native	herb	perennial	0	0	*Trillium recurvatum*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
ULMRUB	1	*Ulmus rubra*	*red elm, slippery elm*	4	FAC	Native	tree	perennial	0	0	*Ulmus rubra*
VERTHA	1	*Verbascum thapsus*	*common mullein, flannel plant, giant m*	0	UPL	Introduced	herb	biennial	0	0	*Verbascum thapsus*
VITAES	1	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Taylor Road Conservancy Spring 2023	PLANT COMMUNITY:	Conifer Plantation
ASSESSMENT AREA NAME:	TMU-1 Conifer Plantation	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
25	17	8	55%	31%	16.0	22.9	3.9	5.6	13.2	20.8	2.6	4.2	5.4	1.3	1.8	0.0
													123%	44%	12%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
CAROVAT	7	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN	1	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CELOCC	1	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
FRAAME	2	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	8	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
LONTAT	10	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MORALB	8	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PINRES	75	*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PRUSER	15	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
RANABO	1	*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/per	0	0	*Ranunculus abortivus*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
RHACAT	26	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SECVAR	1	*Securigera varia*	*crown-vetch, purple crown-vetch*	0	0	Introduced	herb	perennial	0	Restricted	*Securigera varia*
SMIHER	1	*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VIBOPU	7	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VITAES	5	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Taylor Road Conservancy Spring 2023	PLANT COMMUNITY:	Invaded Surrogate Grassland
ASSESSMENT AREA NAME:	TMU-2 (A/B) Invaded Surrogate Grassland	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
30	16	14	66%	41%	11.3	10.8	2.8	2.7	8.2	8.8	1.5	1.6	2.9	1.7	0.4	0.0
													62%	28%	72%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ANEQUI	1	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BROINE	15	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CENSTO	1	*Centaurea stoebe*	*Spotted knapweed*	0	0	Introduced	herb	biennial/per	0	Restricted	*Centaurea stoebe*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAAME	1	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HESMAT	1	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
JUGNIG	55	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONTAT	3	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MELOFF	1	*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MONFIS	2	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
MORALB	2	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PHAARU	2	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA	30	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	2	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEVEL	1	*Quercus velutina*	*black oak*	5	0	Native	tree	perennial	0	0	*Quercus velutina*
RANABO	1	*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/per	0	0	*Ranunculus abortivus*
RHACAT	2	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	20	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBOCC	2	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SECVAR	5	*Securigera varia*	*crown-vetch, purple crown-vetch*	0	0	Introduced	herb	perennial	0	Restricted	*Securigera varia*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Taylor Road Conservancy Spring 2023	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:				
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic	
44	27	17			18.5		3.6		14.5		2.2						
													0%	0%	0%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEQUI		*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CELOCC		*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CENSTO		*Centaurea stoebe*	*Spotted knapweed*	0	0	Introduced	herb	biennial/per	0	Restricted	*Centaurea stoebe*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAAME		*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED		*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
HACVIR		*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HESMAT		*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MELOFF		*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PINRES		*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEVEL		*Quercus velutina*	*black oak*	5	0	Native	tree	perennial	0	0	*Quercus velutina*
RANABO		*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/per	0	0	*Ranunculus abortivus*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA		*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SECVAR		*Securigera varia*	*crown-vetch, purple crown-vetch*	0	0	Introduced	herb	perennial	0	Restricted	*Securigera varia*
SMIHER		*Smilax herbacea*	*common carrion-flower*	5	0	Native	herb	annual	0	0	*Smilax herbacea*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES		*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Emergent Marsh
ASSESSMENT AREA NAME:	UMU-1 Emergent Marsh	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
10	6	4	30%	79%	5.3	6.4	2.2	2.6	4.1	1.7	1.3	0.6	0.0	0.7	0.5	0.0
													0%	3%	35%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGRGIG	2	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ELEERY	1	*Eleocharis erythropoda*	*bald spike-rush*	3	0	Native	herb	perennial	0	0	*Eleocharis erythropoda*
EQUARV	1	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PHAARU	25	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
RUBALL	1	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SYMLAN	3	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TYPANG	1	*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	Southern Hardwood Swamp	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
37	29	8	38%	24%	15.8	20.4	2.9	3.8	14.0	17.4	2.3	2.9	4.5	1.0	1.3	0.0
													78%	26%	52%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI	3	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	3	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
CALCAN	1	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARPEN	1	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARSTR	1	*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CAROVAT	12	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CORFOE	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
EQUARV	1	*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
FRAPEN	3	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GLYSTR	1	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PARQUI	5	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	20	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEMAC	20	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
RHACAT	1	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROSMUL	10	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	3	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
SALBEB	15	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALINT	5	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	10	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SCIATR	1	*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCICYP	2	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TORJAP	2	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VITRIP	7	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (East)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
35	27	8	31%	30%	18.7	17.2	3.6	3.3	16.4	13.8	2.8	2.3	3.8	2.7	1.4	0.0
													14%	48%	42%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
CARLAC	1	*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORAMO	10	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORFOE	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	25	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
ELYVIR	1	*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
ERISTR	1	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GEULAC	1	*Geum laciniatum*	*rough avens*	5	FACW	Native	herb	perennial	0	0	*Geum laciniatum*
GLYSTR	1	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	2	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD	1	*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
LONTAT	1	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
MALPUM	1	*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
ONOSEN	1	*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
PARQUI	1	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	20	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
QUEELL	1	*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
ROSMUL	5	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
SALAMY	2	*Salix amygdaloides*	*peach-leaved willow*	4	FACW	Native	tree	perennial	0	0	*Salix amygdaloides*
SALBEB	1	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALDIS	1	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT	5	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	5	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (North)	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
33	21	12	45%	31%	12.4	13.0	2.7	2.8	9.9	11.3	1.7	2.0	3.3	1.4	0.8	0.0
													58%	45%	43%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACHMIL	1	*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGRY	2	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AGRGIG	3	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CAROVAT	3	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CORFOE	10	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	5	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	7	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HESMAT	2	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
JUGNIG	5	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONTAT	8	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	1	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	11	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PHAARU	15	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POAPRA	3	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPDEL	10	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	2	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	2	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
ROSMUL	7	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBOCC	3	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALINT	10	*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG	8	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SYMLAN	3	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
VITRIP	7	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (North)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
19	12	7	45%	70%	8.7	9.7	2.5	2.8	6.9	3.6	1.6	0.8	2.7	1.8	0.4	0.0
													3%	15%	46%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CALCAN	1	*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CORFOE	2	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
ELAUMB	1	*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ERISTR	1	*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
JUGNIG	2	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LONTAT	4	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PASSAT	1	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PHAARU	35	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
ROSMUL	2	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SOLCAN	1	*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
TYPLAT	1	*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
VIBLEN	5	*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (Southcentral)	SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
9	7	2	51%	76%	9.4	10.9	3.6	4.1	8.3	3.0	2.8	1.0	6.4	0.0	0.4	0.0
													7%	0%	60%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CIRARV	1	*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
GLYSTR	1	*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
PHAARU	50	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
QUEMAC	2	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
SALBEB	5	*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SCICYP	1	*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
URTDIO	1	*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	UMU-2 Oak Woodland	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
36	26	10	27%	21%	17.5	20.8	3.4	4.1	14.8	20.4	2.5	3.4	4.8	1.8	2.2	0.0
													65%	33%	29%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI	1	*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
AGRGRY	2	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
AGRGIG	1	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEQUI	2	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
CARPEN	4	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CAROVAT	25	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CORFOE	5	*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER	5	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL	1	*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
FRAPEN	1	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR	1	*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
LONTAT	2	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PARQUI	2	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PHAARU	2	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPALB	1	*Populus alba*	*silver poplar, white poplar*	0	0	Introduced	tree	perennial	0	Restricted	*Populus alba*
PRUSER	2	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	5	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	15	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB	10	*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT	4	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS	1	*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROSMUL	10	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL	2	*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SYMLAT	2	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TORJAP	2	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pc*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD	2	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
ULMAME	1	*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
VIBOPU	3	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, hc*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP	5	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	Orchard, Pasture, & Conifer Plantation
ASSESSMENT AREA NAME:	UMU-3 Orchard & Conifer Plantation	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
29	11	18	92%	56%	9.9	10.3	3.0	3.1	6.1	7.9	1.1	1.5	2.1	1.8	0.3	0.0
													85%	25%	55%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	15	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGRGIG	2	*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BARVUL	1	*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
BROINE	2	*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
DACGLO	2	*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR	1	*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ERIANN	1	*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
FRAPEN	5	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
JUGNIG	10	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
LOLARU	1	*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*
LONTAT	5	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MALPUM	20	*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
PASSAT	2	*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PHAARU	30	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PICABI	15	*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PINRES	20	*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PLARUG	1	*Plantago rugelii*	*American plantain, black-seeded planta*	0	FAC	Native	herb	perennial	0	0	*Plantago rugelii*
POAPRA	2	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
ROSMUL	3	*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBOCC	15	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SYMLAN	2	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TORJAP	1	*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
VIBOPU	2	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, ha*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Urso Park Spring 2023	PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
89	62	27			26.5		3.4		22.2		2.3					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
ACESACCHARI		*Acer saccharinum*	*silver maple, soft maple*	2	FACW	Native	tree	perennial	0	0	*Acer saccharinum*
ACHMIL		*Achillea millefolium*	*common yarrow, milfoil*	1	FACU	Native	herb	perennial	0	0	*Achillea millefolium*
AGRGIG		*Agrostis gigantea*	*redtop*	0	FACW	Introduced	herb	perennial	0	0	*Agrostis gigantea*
AGRGRY		*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET		*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ANEQUI		*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN		*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
BARVUL		*Barbarea vulgaris*	*garden yellow-rocket, winter-cress, yell*	0	FAC	Introduced	herb	biennial/per	0	0	*Barbarea vulgaris*
BROINE		*Bromus inermis*	*Hungarian brome, smooth brome*	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	*Bromus inermis*
CALCAN		*Calamagrostis canadensis*	*blue-joint grass*	5	OBL	Native	herb	perennial	0	0	*Calamagrostis canadensis*
CARLAC		*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CAROVAT		*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CARPEN		*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CARSTR		*Carex stricta*	*tussock sedge*	7	OBL	Native	herb	perennial	0	0	*Carex stricta*
CIRARV		*Cirsium arvense*	*Canada thistle, creeping thistle, field thi*	0	FACU	Introduced	herb	perennial	0	Restricted	*Cirsium arvense*
CIRVUL		*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORAMO		*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORFOE		*Cornus foemina*	*gray dogwood, northern swamp dogwo*	2	FAC	Native	shrub	perennial	0	0	*Cornus racemosa*
CORSER		*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
CRAMOL		*Crataegus mollis*	*downy hawthorn*	2	FAC	Native	tree	perennial	0	0	*Crataegus mollis*
DACGLO		*Dactylis glomerata*	*orchard grass*	0	FACU	Introduced	herb	perennial	0	0	*Dactylis glomerata*
DAUCAR		*Daucus carota*	*Queen Anne's-lace, wild carrot*	0	UPL	Introduced	herb	biennial	0	Non-Restricted	*Daucus carota*
ELAUMB		*Elaeagnus umbellata*	*autumn olive*	0	0	Introduced	shrub	perennial	0	Restricted	*Elaeagnus umbellata*
ELEERY		*Eleocharis erythropoda*	*bald spike-rush*	3	0	Native	herb	perennial	0	0	*Eleocharis erythropoda*
ELYVIR		*Elymus virginicus*	*common eastern wild-rye, Virginia wild-*	6	FACW	Native	herb	perennial	0	0	*Elymus virginicus*
EQUARV		*Equisetum arvense*	*common horsetail, field horsetail*	1	FAC	Native	herb	perennial	0	0	*Equisetum arvense*
ERIANN		*Erigeron annuus*	*annual fleabane, eastern daisy fleabane*	0	FACU	Native	herb	annual	0	0	*Erigeron annuus*
ERISTR		*Erigeron strigosus*	*daisy fleabane, prairie fleabane, rough j*	2	FACU	Native	herb	annual	0	0	*Erigeron strigosus*
FRAPEN		*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
FRAVIR		*Fragaria virginiana*	*thick-leaved wild strawberry, Virginia st*	1	FACU	Native	herb	perennial	0	0	*Fragaria virginiana*
GALAPA		*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GEUCAN		*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GEULAC		*Geum laciniatum*	*rough avens*	5	FACW	Native	herb	perennial	0	0	*Geum laciniatum*
GLEHED		*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
GLYSTR		*Glyceria striata*	*fowl manna grass, fowl meadow grass*	4	OBL	Native	herb	perennial	0	0	*Glyceria striata*
HACVIR		*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HESMAT		*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/pere	0	Restricted	*Hesperis matronalis*
IMPCAP		*Impatiens capensis*	*orange jewelweed, orange touch-me-no*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG		*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNDUD		*Juncus dudleyi*	*Dudley's rush*	4	FACW	Native	herb	perennial	0	0	*Juncus dudleyi*
JUNVIR		*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LOLARU		*Lolium arundinaceum*	*reed fescue, rye grass, tall fescue*	0	FACU	Introduced	herb	0	0	0	*Schedonorus arundinaceus*
LONTAT		*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MALPUM		*Malus pumila*	*cultivated apple*	0	0	Introduced	tree	perennial	0	0	*Malus pumila*
MONFIS		*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB		*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
ONOSEN		*Onoclea sensibilis*	*sensitive fern*	5	FACW	Native	herb	perennial	0	0	*Onoclea sensibilis*
PARQUI		*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
PASSAT		*Pastinaca sativa*	*wild parsnip*	0	0	Introduced	herb	biennial	0	Restricted	*Pastinaca sativa*
PHAARU		*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
PICABI		*Picea abies*	*Norway spruce*	0	0	Introduced	tree	perennial	0	0	*Picea abies*
PINRES		*Pinus resinosa*	*Canadian pine, Norway pine, red pine*	7	FACU	Native	tree	perennial	0	0	*Pinus resinosa*
PLARUG		*Plantago rugelii*	*American plantain, black-seeded planta*	0	FAC	Native	herb	perennial	0	0	*Plantago rugelii*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POAPRA		*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
POPALB		*Populus alba*	*silver poplar, white poplar*	0	0	Introduced	tree	perennial	0	Restricted	*Populus alba*
POPDEL		*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
PRUSER		*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB		*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEELL		*Quercus ellipsoidalis*	*Hill's oak, northern pin oak*	5	0	Native	tree	perennial	0	0	*Quercus ellipsoidalis*
QUEMAC		*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUERUB		*Quercus rubra*	*northern red oak*	5	FACU	Native	tree	perennial	0	0	*Quercus rubra*
RHACAT		*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBMIS		*Ribes missouriense*	*Missouri gooseberry*	4	0	Native	shrub	perennial	0	0	*Ribes missouriense*
ROSMUL		*Rosa multiflora*	*multiflora rose*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Rosa multiflora*
RUBALL		*Rubus allegheniensis*	*common blackberry*	2	FACU	Native	shrub	perennial	0	0	*Rubus allegheniensis*
RUBOCC		*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALAMY		*Salix amygdaloides*	*peach-leaved willow*	4	FACW	Native	tree	perennial	0	0	*Salix amygdaloides*
SALBEB		*Salix bebbiana*	*beaked willow, Bebb's willow*	7	FACW	Native	tree	perennial	0	0	*Salix bebbiana*
SALDIS		*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALINT		*Salix interior*	*sandbar willow*	2	FACW	Native	shrub	perennial	0	0	*Salix interior*
SALNIG		*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN		*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SCIATR		*Scirpus atrovirens*	*black bulrush, dark-green bulrush*	3	OBL	Native	herb	perennial	0	0	*Scirpus atrovirens*
SCICYP		*Scirpus cyperinus*	*wool-grass*	4	OBL	Native	herb	perennial	0	0	*Scirpus cyperinus*
SOLCAN		*Solidago canadensis*	*Canadian goldenrod*	1	FACU	Native	herb	perennial	0	0	*Solidago canadensis*
SYMLAN		*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
SYMLAT		*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF		*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TORJAP		*Torilis japonica*	*erect hedge-parsley, Japanese hedge-pa*	0	0	Introduced	herb	annual	0	Prohibited/Restricted	*Torilis japonica*
TOXRAD		*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
TYPANG		*Typha angustifolia*	*narrow-leaved cat-tail*	0	OBL	Introduced	herb	perennial	0	Restricted	*Typha angustifolia*
TYPLAT		*Typha latifolia*	*broad-leaved cat-tail, common cat-tail*	1	OBL	Native	herb	perennial	0	0	*Typha latifolia*
ULMAME		*Ulmus americana*	*American elm, white elm*	3	FACW	Native	tree	perennial	0	0	*Ulmus americana*
URTDIO		*Urtica dioica*	*stinging nettle*	1	FACW/FAC	Native	herb	perennial	0	0	*Urtica dioica*
VIBLEN		*Viburnum lentago*	*nannyberry, sheepberry*	4	FAC	Native	shrub	perennial	0	0	*Viburnum lentago*
VIBOPU		*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR		*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/perei	0	0	*Viola sororia*
VITRIP		*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Woodland Commons Conservancy Spring 2023	PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	WMU-1 Southern Dry-mesic Forest	SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
54	40	14	55%	24%	23.7	24.6	3.8	3.9	20.4	23.1	2.8	3.1	4.1	1.5	2.2	0.0
													136%	63%	31%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	3	*Acer negundo*	*ash-leaved maple, box elder*	0	FAC	Native	tree	perennial	0	0	*Acer negundo*
AGRGRY	1	*Agrimonia gryposepala*	*common agrimony, tall hairy agrimony*	2	FACU	Native	herb	perennial	0	0	*Agrimonia gryposepala*
ALLPET	1	*Alliaria petiolata*	*garlic mustard*	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	*Alliaria petiolata*
ALLTRI	1	*Allium tricoccum*	*ramp, wild leek*	6	FACU	Native	herb	perennial	0	0	*Allium tricoccum*
ANEQUI	1	*Anemone quinquefolia*	*nightcaps, wood anemone*	6	FAC/FACU	Native	herb	perennial	0	0	*Anemone quinquefolia*
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CARBLA	1	*Carex blanda*	*common wood sedge, eastern woodlan*	3	FAC	Native	herb	perennial	0	0	*Carex blanda*
CARPEN	2	*Carex pensylvanica*	*common oak sedge, Pennsylvania sedge*	3	0	Native	herb	perennial	0	0	*Carex pensylvanica*
CAROVAT	1	*Carya ovata*	*shagbark hickory, shellbark hickory*	5	FACU	Native	tree	perennial	0	0	*Carya ovata*
CELOCC	3	*Celtis occidentalis*	*northern hackberry*	4	FAC	Native	tree	perennial	0	0	*Celtis occidentalis*
CENSTO	1	*Centaurea stoebe*	*Spotted knapweed*	0	0	Introduced	herb	biennial/per	0	Restricted	*Centaurea stoebe*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CONMAJ	1	*Convallaria majalis*	*European lily-of-the-valley, lily-of-the-va*	0	0	Introduced	herb	0	0	Non-Restricted	*Convallaria majalis*
CORAMO	1	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
FRAAME	3	*Fraxinus americana*	*white ash*	5	FACU	Native	tree	perennial	0	0	*Fraxinus americana*
FRAPEN	10	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GALAPA	1	*Galium aparine*	*annual bedstraw, cleavers, goose-grass,*	2	FACU	Native	herb	annual	0	0	*Galium aparine*
GERMAC	1	*Geranium maculatum*	*Crane's-bill, spotted geranium, wild ger*	4	FACU	Native	herb	perennial	0	0	*Geranium maculatum*
GEUCAN	1	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
GLEHED	1	*Glechoma hederacea*	*creeping-Charlie, gill-over-the-ground, g*	0	FACU	Introduced	herb	perennial	0	Caution	*Glechoma hederacea*
HACVIR	1	*Hackelia virginiana*	*beggar's-lice, stickseed, wild comfrey*	3	FACU	Native	herb	biennial	0	0	*Hackelia virginiana*
HESMAT	1	*Hesperis matronalis*	*dame's rocket*	0	FACU	Introduced	herb	biennial/per	0	Restricted	*Hesperis matronalis*
JUGNIG	10	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LONRET	1	*Lonicera reticulata*	*grape honeysuckle, yellow honeysuckle*	6	0	Native	shrub	perennial	0	0	*Lonicera reticulata*
LONTAT	7	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
MAIRAC	1	*Maianthemum racemosum*	*false Solomon's-seal, false spikenard, la*	5	FACU	Native	herb	perennial	0	0	*Maianthemum racemosum*
MELOFF	1	*Melilotus officinalis*	*yellow sweet-clover*	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	*Melilotus officinalis*
MONFIS	1	*Monarda fistulosa*	*bee balm, wild bergamot*	3	FACU	Native	herb	perennial	0	0	*Monarda fistulosa*
MORALB	2	*Morus alba*	*Russian mulberry, white mulberry*	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	*Morus alba*
PARQUI	5	*Parthenocissus quinquefolia*	*Virginia creeper, woodbine*	5	FACU	Native	tree	perennial	0	0	*Parthenocissus quinquefolia*
POAPRA	1	*Poa pratensis*	*Kentucky bluegrass*	0	FAC/FACU	Introduced	herb	perennial	0	0	*Poa pratensis*
PODPEL	3	*Podophyllum peltatum*	*May-apple, wild mandrake*	4	FACU	Native	herb	perennial	0	0	*Podophyllum peltatum*
POPDEL	5	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
POPGRA	1	*Populus grandidentata*	*big-tooth aspen, large-toothed aspen*	3	FACU	Native	tree	perennial	0	0	*Populus grandidentata*
PRUSER	42	*Prunus serotina*	*wild black cherry*	3	FACU	Native	tree	perennial	0	0	*Prunus serotina*
QUEALB	30	*Quercus alba*	*white oak*	7	FACU	Native	tree	perennial	0	0	*Quercus alba*
QUEMAC	5	*Quercus macrocarpa*	*bur oak*	5	FAC/FACU	Native	tree	perennial	0	0	*Quercus macrocarpa*
QUEVEL	9	*Quercus velutina*	*black oak*	5	0	Native	tree	perennial	0	0	*Quercus velutina*
RANABO	1	*Ranunculus abortivus*	*little-leaf buttercup, small-flowered but*	1	FACW/FAC	Native	herb	biennial/per	0	0	*Ranunculus abortivus*
RHACAT	31	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RHUGLA	10	*Rhus glabra*	*smooth sumac*	2	0	Native	shrub	perennial	0	0	*Rhus glabra*
RIBAME	1	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SAMCAN	1	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SYMLAT	1	*Symphyotrichum lateriflorum*	*side-flowering aster*	3	FACW/FAC	Native	herb	perennial	0	0	*Symphyotrichum lateriflorum*
TAROFF	1	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
TILAME	1	*Tilia americana*	*American linden, basswood*	5	FACU	Native	tree	perennial	0	0	*Tilia americana*
TOXRAD	1	*Toxicodendron radicans*	*common eastern poison-ivy*	4	FAC	Native	herb	perennial	0	0	*Toxicodendron radicans*
VIBOPU	5	*Viburnum opulus*	*cranberry viburnum, European cranberr*	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	*Viburnum opulus*
VIOSOR	1	*Viola sororia*	*door-yard violet, common blue violet, h*	3	FAC	Native	herb	annual/pere	0	0	*Viola sororia*
VITAES	5	*Vitis aestivalis*	*pigeon grape, summer grape*	5	FACU	Native	tree	perennial	0	0	*Vitis aestivalis*
VITRIP	2	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ZANAME	5	*Zanthoxylum americanum*	*common prickly-ash, northern prickly-as*	3	FACU	Native	shrub	perennial	0	0	*Zanthoxylum americanum*

Wisconsin Floristic Quality Calculator Version 1.3.17

SITE NAME:	Yahara River Conservancy Spring 2023	PLANT COMMUNITY:	Floodplain Forest & Emergent Marsh
ASSESSMENT AREA NAME:	YMU-1 Floodplain Forest & Emergent Marsh	SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		
	Longitude:	SURVEY DATE:	4/25/2023
COUNTY:	Dane	SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains		

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				$w\bar{C}_a$ By Growth Form:			
N_a	N_n	$N_{int.}$	Non-Native Total Cover:	Non-Native Relative Cover	FQI_n	$w\ FQI_n$	Mean C $\bar{C}_n$	Weighted Mean C $w\bar{C}_n$	FQI_a	$w\ FQI_a$	Mean C $\bar{C}_a$	Weighted Mean C $w\bar{C}_a$	Tree	Shrub	Herb	Aquatic
24	17	7	58%	34%	13.3	10.1	3.2	2.5	11.2	7.9	2.3	1.6	2.2	1.7	0.6	0.0
													85%	36%	50%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ARCMIN	1	*Arctium minus*	*common burdock, lesser burdock*	0	FACU	Introduced	herb	biennial	0	0	*Arctium minus*
CARLAC	1	*Carex lacustris*	*common lake sedge*	6	OBL	Native	herb	perennial	0	0	*Carex lacustris*
CIRVUL	1	*Cirsium vulgare*	*bull thistle*	0	FACU	Introduced	herb	biennial	0	0	*Cirsium vulgare*
CORAMO	5	*Cornus amomum*	*knob-styled dogwood, silky dogwood*	4	FACW	Native	shrub	perennial	0	0	*Cornus amomum*
CORSER	7	*Cornus sericea*	*red osier dogwood*	3	FACW	Native	shrub	perennial	0	0	*Cornus sericea*
FRAPEN	6	*Fraxinus pennsylvanica*	*green ash, red ash*	2	FACW	Native	tree	perennial	0	0	*Fraxinus pennsylvanica*
GEUCAN	2	*Geum canadense*	*white avens*	2	FAC	Native	herb	perennial	0	0	*Geum canadense*
IMPCAP	1	*Impatiens capensis*	*orange jewelweed, orange touch-me-nc*	2	FACW	Native	herb	annual	0	0	*Impatiens capensis*
JUGNIG	1	*Juglans nigra*	*black walnut*	3	FACU	Native	tree	perennial	0	0	*Juglans nigra*
JUNVIR	1	*Juniperus virginiana*	*eastern red-cedar*	3	FACU	Native	tree	perennial	0	0	*Juniperus virginiana*
LEOCAR	1	*Leonurus cardiaca*	*lion's-tail, motherwort*	0	0	Introduced	herb	perennial	0	0	*Leonurus cardiaca*
LONTAT	8	*Lonicera tatarica*	*Tartarian honeysuckle*	0	FACU	Introduced	shrub	perennial	0	Restricted	*Lonicera tatarica*
PHAARU	35	*Phalaris arundinacea*	*reed canary grass*	0	FACW	Introduced	herb	perennial	0	Non-restricted	*Phalaris arundinacea*
POPDEL	60	*Populus deltoides*	*eastern cottonwood*	2	FAC	Native	tree	perennial	0	0	*Populus deltoides*
RHACAT	10	*Rhamnus cathartica*	*common buckthorn, European buckthor*	0	FAC	Introduced	shrub	perennial	0	Restricted	*Rhamnus cathartica*
RIBAME	2	*Ribes americanum*	*American black currant, eastern black c*	4	FACW	Native	shrub	perennial	0	0	*Ribes americanum*

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
RUBOCC	1	*Rubus occidentalis*	*black-cap, black raspberry*	2	0	Native	shrub	perennial	0	0	*Rubus occidentalis*
SALDIS	10	*Salix discolor*	*pussy willow*	2	FACW	Native	tree	perennial	0	0	*Salix discolor*
SALNIG	7	*Salix nigra*	*black willow*	4	OBL	Native	tree	perennial	0	0	*Salix nigra*
SAMCAN	3	*Sambucus canadensis*	*American elder, elderberry*	3	FAC/FACW	Native	shrub	perennial	0	0	*Sambucus nigra ssp. canadensis*
SYMLAN	1	*Symphyotrichum lanceolatum*	*panicled aster*	4	FAC/FACW	Native	herb	perennial	0	0	*Symphyotrichum lanceolatum*
TAROFF	2	*Taraxacum officinale*	*common dandelion*	0	FACU	Introduced	herb	perennial	0	0	*Taraxacum officinale*
VITRIP	4	*Vitis riparia*	*frost grape, river bank grape*	2	FACW/FAC	Native	herb	perennial	0	0	*Vitis riparia*
ZIZAUR	1	*Zizia aurea*	*common golden alexanders, golden ale*	7	FAC	Native	herb	perennial	0	0	*Zizia aurea*

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Administration**

CONTACT: **Cassandra Suettinger, Deputy Administrator/Clerk, Andrew Bremer, Comm & Eco Dev Director, Aaron Chapin, Police Chief, Chris Dennis, Fire/Rescue Chief**

AGENDA ITEM: **Public Hearing on Ordinance 2023-05: an Ordinance updating Tourist Rooming House Regulations.**

PREVIOUS ACTION:
On January 24, 2023 Trustee Wreh referred the issue of reviewing the Village's tourist rooming house ordinance for possible updates.

February 26, 2023 - The Public Safety Committee discussed the referral being made an the process to bring the review process forward.

March 6, 2023 - The Public Safety Committee did an initial review of the ordinance with the Village Attorney to learn more about what changes may be possible in light of the State's Right to Rent Law.

April 3, 2023 - The Public Safety Committee held a public input session on the current ordinance. All residents within 300 feet of an active Tourist Rooming House were notified as well as public notification on Village social media of the event. The Committee listened to input from the community and directed members to email staff changes for review at the next meeting.

May 1, 2023 - The Public Safety Committee referred updates to the Village's Tourist Rooming House Ordinance to the Village Board.

May 23, 2023 - The Village Board reviewed the proposed Ordinance 2023-05: An ordinance updating Tourist Rooming House Regulations to review inclusion of a definition that would would define how the Village residence requirement for minimum stays would apply to a business, re-visit the maximum occupancy calculation in regards to excluding children from the calculation, and reviewing the effective date of the ordinance for both current permit holders and new permit applications.

Additionally, the Village Board requested a public hearing be held on the proposed ordinance amendment and distributed to all current permit holders and all neighbors within the 500 feet notification area.

VILLAGE OF
McFarland

ISSUE SUMMARY:
On June 5th, the Public Safety Committee met to review the requested areas of clarification from the Village Board. The Public Safety provided the following updates to the ordinance since the Village Board last saw it:

- The Ordinance has been updated to include a definition of how the Village residency requirement for minimum stays would apply to an application from a business,
- The Committee has updated the standard for calculation of the maximum occupancy to include that children 12 and under are excluded from the maximum occupancy requirement.
- The Committee has recommended all permit holders at the time of passage of Ordinance 2023-05 shall be allowed to operate under the previous ordinance until June 30, 2024.
- The Ordinance amendment would be effective upon passage and publication for all new TRH permit applications.

The Public Safety Committee recommended the public hearing be held by the Village Board. The Public Safety Committee noted it had already held a public input session in April and heard feedback from residents and permit holders. All current TRH permit holders and residents within 500 feet were notified of the proposed changes to the ordinance, and provided notice of the meeting to provide comment. Any written comments received in advance, have been attached.

FINANCIAL/BUDGET IMPACT:
The proposed change requiring Village resident to rent for periods of 1-6 days could reduce room tax revenues. Detailed data regarding average night stays is not provide by TRH permittees as part of the process, so exact effects of revisions are hard to gauge.

VILLAGE PLAN REFERENCE:
N/A.

ORDINANCE REFERENCE:
Tourist Rooming House Ordinance.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Item is submitted for discussion.

ATTACHMENTS:
1. Public Hearing Notice - 06.09.2023 - FINAL
2. TRH Ordinance Update Summary - 06.12.2023
3. 2023-05 Updates to TRH Regulations
4. List of permits - Effects of Changes - 06.20.23
5. TRH Research - 3.30.2023
6. P Zeimet - TRH PH - Feedback 06.19.2023

PUBLIC HEARING – TOURIST ROOMING HOUSES

The Village adopted the Tourist Rooming House ordinance in 2017 as a means of regulating Tourist Rooming Houses, AKA Short term rentals in the Village. In 2020 the Village made updates to the ordinance to remove provisions that conflict with the State's right to rent law. The Village has received several requests from residents to conduct a follow-up review of the ordinance.

The Village held a public information session on the Village's Tourist Rooming House Ordinance on Monday, April 3, 2023. The Public Safety Committee reviewed comments received from residents and Tourist Rooming House owners/operators and have put together proposed revisions to the ordinance. The Committee's goal was to balance the concerns of neighbors with the right for property owners to use their property as a Tourist Rooming House.

Attached to this notice you will find a summary outlining the changes. A full copy of the proposed ordinance can be obtained by visiting the 'News' section of the Village's website and clicking the 'Public Hearing on proposed Tourist Rooming House updates. news story. You can additional request a copy: via email - village.clerk@mcfarland.wi.us, via – phone 608-838-3153 or in the administration offices at the Village of McFarland Municipal Center, 5915 Milwaukee Street, McFarland, WI 53558 (Monday-Friday, 8:00 a.m. to 4:30 p.m.).

The Village Board will hold a public hearing on the proposed revisions to the Tourist Rooming House Ordinance at their regular meeting, Tuesday June 27th beginning at 7:00 p.m.

Residents wishing to attend the public hearing session can do so in-person at the municipal center or via zoom by visiting: https://us02web.zoom.us/j/89299227226.

If you cannot attend the meeting, you may submit your written comments to the Village Board by email to village.clerk@mcfarland.wi.us or via mail at, Village of McFarland, P.O. Box 110, McFarland, WI 53558-0110.

Submission must be received no later than *Thursday June 22nd* at noon to be included in the Village Board packet. All feedback received after this date will be forwarded to the Village Board but not included in the agenda packet. For questions additional information regarding this ordinance contact Cassandra Suettinger, Deputy Administrator/Clerk at village.clerk@mcfarland.wi.us or 608-838-3153.

TOURIST ROOMING HOUSE ORDINANCE UPDATES

1. To operate a Tourist Rooming House for stays of 1-6 days, the owner must be a village resident or a village business. Applicants would be required to prove they are a Village resident or Village business through the application process.

2. Non-Village resident/business applications would have a minimum stay requirement of 7 days for all rentals.

3. The Tourist Rooming House application process has been updated to eliminate the public meeting process in front of the Public Safety Committee. Considering the right to rent law passed in 2017, the Village does not have the ability to deny an application that meets the standards outlined by the Village's Ordinance. Residents within 500 feet of the proposed Tourist Rooming House will still be notified and provided with the opportunity to discuss their concerns with staff. The Village Board shall serve as the body for hearing appeals of Village staff's decision on permit denials.

4. Property Maintenance standards shall be considered as part of the application process.

5. Create a definition regarding what 'operation' of a tourist rooming house is. The expanded definition provides that advertising and marketing are considered operation and require a permit.

6. Insertion of additional regulations regarding allowing for safe outdoor burning.

7. Insertion of a requirement that all Tourist Rooming Houses have a fire extinguisher within 30 feet of cooking equipment.

8. Changes to standards for Tourist Rooming Houses:

- **Previous Standard:** Not less than 150 square feet of floor space for the first occupant thereof and at least an additional 100 square feet of floor space for every additional occupant thereof; the floor space shall be calculated on the basis of total habitable room area. Floor space is determined using interior measurements of each room. Floor space does not include kitchens, bathrooms, closets, garages, or rooms not meeting Uniform Dwelling Code requirements for occupancy.
- **New Standard:** Maximum renter occupancy shall not exceed the lesser of two times the number of legal bedrooms to be rented in the residential dwelling or 12. Children 12 and under shall not count towards the maximum renter occupancy.

- **Previous Standard:** Not less than one and one-quarter onsite off-street parking spaces for every four occupants based upon maximum occupancy
- **New Standard:** Off-street parking spaces on the property shall be available to the renters. The minimum number of off-street parking spaces available for renters shall be

as required for the type of dwelling unit as set forth in the Village Zoning code. The operator shall designate off-street parking spaces for renters on the property in accordance with the standards outlined in the Village Zoning Code, including but not limited to Subdivision IV, Vision Clearance, Parking and Loading Facilities. Parking space limit shall appear in all advertising for the tourist rooming house. Parking spaces must be accessible to renters at all times to be considered valid under this section.

Below is the parking table from the Zoning Code:

Elderly/efficiency	1 space/dwelling unit
One Bedroom	2 spaces/dwelling unit
Two bedrooms	2 spaces/dwelling unit
Three bedrooms	2.5 spaces/dwelling unit
Four Bedrooms	3 spaces/dwelling unit

9. All Tourist Rooming House Permit holders would be allowed to operate under the previous ordinance until next year's permitting cycle which begins on July 1, 2024.

10. All new tourist rooming house permit applications received after passage of the new ordinance, would be subject to the new standards and requirements of the updated ordinance.

VILLAGE OF MCFARLAND
ORDINANCE 2023-05

AN ORDINANCE UPDATING REGULATIONS FOR TOURIST ROOMING HOUSES

PURPOSE - To update regulation of short term rentals of dwellings in residential neighborhoods.

SPONSOR - Cassandra Suettinger, Deputy Administrator/Clerk, Community & Economic Development Director Andrew Bremer, Police Chief Aaron Chapin and Fire & Rescue Chief Chris Dennis.

NOW THEREFORE, be it ordained by the Village Board of the Village of McFarland, in the State of Wisconsin, as follows:

SECTION 1: **AMENDMENT** "11-350 Purpose" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-350 Purpose
The purpose of this Article is to ensure that the quality of tourist rooming houses operating within the Village is adequate for protecting public health, safety and general welfare, including establishing minimum standards of space for human occupancy and for an adequate level of maintenance; determining the responsibilities of owners, operators and property managers offering these properties for tourists or transients, to protect the character and stability of residential areas of the Village; to provide minimum standards necessary for the health and safety of persons occupying or using buildings, structures or premises; and provisions for the administration and enforcement thereof. The Village Board specifically finds that use of single family residences in the Village for short term rental creates the increased potential for adverse impacts on single family neighborhoods. The Village Board also finds that nonresidents and businesses located outside of the Village of McFarland are less responsive to problems that arise in the operation of short-term rentals located in the Village, particularly with rentals of fewer than seven days, as compared to Village businesses and residents who operate short-term rentals responsibly. The increased potential for adverse impacts is due to a higher degree of residential use and occupancy by vacationers who may tend to more frequently keep different hours engaging in recreational and social activities than the permanent residents in the surrounding neighborhood. Further, lacking any connection to the surrounding neighborhood, are less likely to be sensitive to the needs and concerns of neighbors. Finally, the lake side neighborhoods in which tourist rooming houses may be most likely to operate in the Village typically have small lots with homes very close

to one another thereby increasing the potential for conflicts or disturbances. Additionally, the Village recognizes the passage of the Right to Rent Law in the State of Wisconsin, Wis. Stat. § 66.1014 protected the ability of homeowners to rent their homes on a short-term basis.

SECTION 2: AMENDMENT "11-351 Definitions" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-351 Definitions

In this Article:

Bed and breakfast establishment means any place of lodging that satisfies all of the following:

(a) Provides eight or fewer rooms for rent to no more than a total of 20 tourists or transients.
(b) Provides no meals other than breakfast and provides the breakfast only to renters of the place.
(c) Is the owner's primary place of residence.
(d) Is occupied by the owner at the time of rental.
(e) Was originally built and occupied as a single-family residence, or, prior to use as a place of lodging, was converted to use and occupied as a single-family residence.

Dwelling unit means ~~a structure consisting of one or more rooms with provisions for living, cooking, sanitary, and sleeping facilities and a bathroom designed for or suited to the exclusive use by one person or one family~~ any building, structure, or part of the building or structure, that is used or intended to be used as a home, residence, or sleeping place by one person or two (2) or more persons maintaining a common household, to the exclusion of all others.

Hotel means all places wherein sleeping accommodations are offered for pay to transients, in five or more rooms, and all places used in connection therewith. "Inn", "motel" and "hotel" are synonymous.

Local agent means a person that, subject to the conditions established in Section 11-352, is authorized by the owner of a tourist rooming house to manage a tourist rooming house.

Operate a tourist rooming house means any of the following:

(a) Renting a tourist rooming house to a tourist or transient.

(b) Renting a tourist rooming house through a marketplace provider, such as VRBO and Airbnb, to a tourist or transient.
(c) Managing a tourist rooming house.
(d) Advertising a tourist rooming house for rent through a marketplace provider, such as VRBO and Airbnb.

~~*Short term rental* means the rental of a dwelling unit for a period of less than 29 consecutive days.~~

Tourist rooming house means any dwelling unit rented for any period of time less than 30 consecutive days ~~where sleeping accommodations are offered for pay on a short term rental basis~~ to tourists or transients, except that the following are expressly excluded:

(a) Bed and breakfast establishments.
(b) Hotels.
(c) Any private boarding or rooming houses, ordinarily conducted as such, that do not accommodate tourists or transients.

Tourist or *transient* means a person who travels from place to place away from his or her permanent residence for vacation, pleasure, recreation, culture, business or employment.

Village Resident means an individual person whose residence in the Village of McFarland serves as the individual's true, fixed, and permanent home for at least 183 days in a calendar year and to which, whenever absent therefrom, that individual intends to return. Additional characteristics of a primary residence including, but are not limited to, where an individual receives government-issued mail, receives a Wisconsin lottery credit, claims residence for purposes of voter registration, federal or state income tax forms that is located within the Village of McFarland. Village Resident does not include any business entity.
Village Business means a business entity that has its principal place of business located within the Village of McFarland and that is at least fifty percent (50%) owned by a Village Resident or Village Residents.

SECTION 3: **AMENDMENT** "11-352 Operation Of Tourist Rooming Houses" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-352 Operation Of Tourist Rooming Houses

(a) Every owner of a tourist rooming house shall appoint a local agent to manage the tourist rooming house if the owner resides outside a 30-mile radius from the tourist rooming house or if the owner will be absent while the property is being rented as a

tourist rooming house. For purposes of this requirement, an owner shall be considered absent if he or she cannot be contacted and be present at the touring rooming house within 45 minutes. The owner shall provide notice to the Village of the agent's name, address, telephone number and email address. The local agent shall:

(1) If a natural person, keep their permanent residence within 30 miles of the tourist rooming house, or if a property management company or similar business entity, have offices within 30 miles of the tourist rooming house;

(2) Be authorized as owner, or on behalf of the owner of the tourist rooming house, to accept service of all notices from the Village or service of legal process relating to any and all matters relating to the tourist rooming house;

(3) Be authorized to allow Village officers, employees, or agents, to enter the owner's property for purposes of inspection and enforcement of this Article or any other ordinance, statute, rule or regulation the Village may have the duty or authority to enforce;

(4) Be authorized to act as owner, or on behalf of the owner, of the tourist rooming house in all matters relating to dealing with renters of the tourist rooming house;

(5) Be authorized to undertake, or cause to be undertaken, any repair or act of maintenance of the tourist rooming house necessary to comply with any Village ordinance, or any applicable state building regulations.

(6) Subject to Wis. Stats. §§ 111.321, 111.322 and 111.335 has not been convicted of or have any pending charges for any offense as a felony, misdemeanor, or civil forfeiture, involving dishonesty, fraud, deceit, robbery, the use or threatened use of force or violence upon the person of another, or sexual immorality under Wis. Stats. ch. 944; and

(b) Each tourist rooming house shall have and maintain the following licenses and permits:

(1) All required permits from State of Wisconsin Department of Agriculture, Trade and Consumer Protection or authorized agent including a permit for operation of a tourist rooming house under Wis. Stats. § 97.605 including any permits or licenses required by Dane County Public Health of Madison Dane County;

(2) A seller's permit issued by the Wisconsin Department of Revenue;

(3) Any permit required under this Article.

SECTION 4: AMENDMENT "11-354 Application" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-354 Application

(a) All applications for a new tourist rooming house permit or renewal shall be filed with the Village Clerk-Treasurer on forms provided by the Village Clerk-Treasurer. All applications must be filed by the property owner. Each applicant shall certify to the Village that the tourist rooming house included in the permit is in compliance with the provisions of this Chapter. No permit shall be issued unless the completed application form is accompanied by payment of the required fee.

(b) Each application for a new permit shall include the following information and documentation for each tourist rooming house:

(1) A nuisance response plan as described in Section 11-359.

(2) A current Tourist Rooming House License issued by Public Health of Madison and Dane County, or other applicable entity, under Wis. Stats. § 97.605, or a copy of the completed application submitted for said license if the license has not been issued.

(3) A copy of a completed Public Health of Madison and Dane County, or other applicable entity, tourist rooming house inspection form dated within one year of the date of issuance or renewal.

(4) Proof of liability insurance. Such insurance shall be a commercial general liability, hotel or short-term rental policy that specifically covers liabilities arising from rental of the tourist rooming house for short-term rentals. The policy shall provide no less than $1,000,000.00 coverage, per occurrence. Claims-made coverage shall not be acceptable insurance under this Article.

(5) Seller's permit from the State of Wisconsin Department of Revenue. (Not required for those operator's solely utilizing a lodging marketplace for bookings).

(6) Floor plan and requested maximum occupancy.

(7) Site plan including available onsite parking.

(8) Local agent agreement reflecting the local agent's authority and acceptance of all responsibilities under this Article, if applicable.~~.~~

(9) Designation of the local agent, if applicable.~~.~~

(10) Proof of a successful inspection by the Village Building Inspector and Village
Fire Inspector, required under Section 11-358.

(11) A statement if the applicant intends to rent the tourist rooming house for periods of time fewer than seven (7) days.

(12) For those owners renting the tourist rooming house for periods of time fewer than seven (7) days, two separate items of documentation showing that the proposed Tourist Rooming House owner is a Village Resident. Identifying documents must contain the owner's current and complete name, and a current and complete residential address. Adequate identifying documents that contain the required information include the following,

documents must be unexpired or issued within 90 days of proposed permitting period: a valid identification card issued under Wis. Stats. 343.50, a residential lease, a bank statement a paycheck or paystub, or a check or other document issued by a unit of government, an identification card issued by a federally recognized tribe in this state, and other document deemed acceptable by the Village ClerkTreasurer.

(13) For Village Business renting the tourist rooming house for periods of time fewer than seven (7) days, documentation showing that the business's principal place of business is located within the Village of McFarland and that the business is owned and operated by a Village Resident.

(14) Any other information requested on the application form deemed necessary in the reasonable discretion of the Village Clerk-Treasurer to evaluate the application under this Article.

(c) Applications for renewal of a permit are not required to include the documentation for items listed in paragraphs (6) through (9) unless the information has changed from the preceding application.

SECTION 5: **AMENDMENT** "11-355 Terms And Filing Date" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-355 Terms And Filing Date

Each permit shall run from July 1 through June 30 of the following year and shall not be transferrable to any other place or person. All renewal applications must be filed by May 1 of each year. The filing fee shall be paid upon filing of the application. The Clerk-Treasurer may conditionally accept late applications, subject to payment of the late filing fee. Any application which does not include all of the information and documentation shall not be considered as complete. The permit may not be issued unless and until a Tourist Rooming House License has been issued by Public Health of Madison and Dane County.

SECTION 6: **AMENDMENT** "11-356 New Application Review Procedure" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-356 New Application Review Procedure

(a) ~~*Committee review.* When satisfied that the application is complete, the Village ClerkTreasurer shall forward initial applications for permits to the Public Safety Committee for review. The Clerk-Treasurer shall notify the owners of all properties~~

~~lying within 300 feet of the property proposed as a tourist rooming house by regular mail that such application has been filed, the address of the proposed tourist rooming house and the date of the meeting at which the Public Safety Committee will review the application. Such notice shall be mailed no later than ten days prior to the meeting. If the application is filed 14 days or more prior to its next scheduled meeting, provided the application is complete, the application shall be considered at that meeting. Otherwise, the application, provided the application is complete, will be considered within 40 days of the filing date. The Public Safety Committee shall consider the application and supporting documents. If the Committee determines that the application meets the requirements of this Article it shall forward the application to the Village Board for approval. If the Committee determines that the application does not meet the requirements of this Chapter, it shall recommend denial of the application to the Village Board. Any denial or conditional approval by the Committee shall be in writing setting forth the reasons for the determination.*Village Board.* The Village Board shall consider the application and the recommendation of the Public Safety Committee at its next scheduled meeting. The Village Board may approve, approve with conditions, or deny the application. Any denial or conditional approval by the Village Board shall be in writing setting forth the reasons for the determination.~~Issuance of a permit by the Village Clerk-Treasurer

(1) Prior to issuance of the permit, the Village Clerk-Treasurer shall send a notification to all property owners within 500 feet of the proposed tourist rooming house. The notice shall contain the application and information on tourist rooming houses, standards of Tourist Rooming houses contained in the Village Ordinance, and the process to report violations or nuisances outlined in this chapter. The applicant shall prepay the cost of sending such notice for the notices are sent.

(2) The Village Clerk-Treasurer shall issue a permit as soon as practicable, unless the Village clerk-Treasurer determines one or more of the following:

a. The application is incomplete, or information required in section 11354 has not been met.

b. The application or support documents contain any false or materially misleading information or any material omission.

(3) The permit shall contain all of the following information:

a. The name and address of the property owner.

b. The name, address and phone number of the local agent.

c. The maximum occupancy for the premises

d. The permit term.

(b) Non-Issuance of a permit by the Village Clerk-Treasurer

(c) ~~*Issuance.* The Village Clerk-Treasurer shall issue a permit for each tourist rooming house approved by the Village Board, subject to any required inspections under~~

~~subsection (b) and payment of taxes, assessments and claims under Section 11-1. The permit shall contain all of the following information:~~
~~The name and address of the property owner.The name, address and phone number of the local agent.The maximum occupancy for the premises.The permit term.State lodging permit number.Contact information for the Village~~.

(1) Except as provided in 11-356(2), if an application is not approved by the Village Clerk-Treasurer, a notice shall be provided to the applicant, in writing, contained a statement of the reasons for the denial, including specifics regarding reason for denial. The written notice to the applicant shall also provide notice of right to a hearing as provided under 11-365(c) below.

(d) Appeals Process

(1) Any person whose application has not been approved by the Village clerkTreasurer may appeal that decision to the Public Safety Committee by providing written notice to the Village Clerk-Treasurer within 14 days of the Village clerk-Treasurer mailing notice of denial of the permit.

(2) Upon appeal, the Public Safety Committee shall conduct a hearing to make a recommendation to the Village Board regarding the issuance of a Tourist Rooming House permit. If the applicant fails to appear before the Public Safety Committee, the Public Safety Committee shall forward a recommendation for non-issuance of the permit. At the hearing, both the Village and the applicant may introduce evidence, produce witnesses, crossexamine witnesses, and be represented by counsel. The hearing shall be recorded.

(3) The Village Board shall issue written findings an decision regarding the issuance of the permit within 30 days after the hearing.

SECTION 7: **AMENDMENT** "11-357 Renewal" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-357 Renewal

(a) Upon receipt of any renewal application and determination that the application is complete, the Village Clerk-Treasurer shall request reports from the Police Department and the ~~Director of~~ Community Development Department regarding any complaints received, calls for service or actions taken regarding the permitted properties. The Clerk-Treasurer shall issue renewal permits within 45 days of the filing of the application unless the information provided is incomplete or otherwise not in compliance with the requirements of this Article or the reports from the Police

Department and the ~~Zoning Administrator~~Community Development Department indicate that there have been complaints or actions involving the property.

(b) If the Clerk-Treasurer finds that the permit should not be renewed because the application demonstrates that the requirements of Sections 11-352~~(b) and (c)~~ and 11354~~(a) and (b)~~ are not met, or that due to complaints or actions during previous permit year, the application should be ~~considered by the~~ forwarded on to the Public Safety Committee, to hold a hearing on non-renewal of the permit in accordance with the procedure set forth in 11-356(b) and (c). ~~the Clerk-Treasurer shall forward the application to the Public Safety Committee for action along with a written explanation of the reason for referral. Upon referral to the Public Safety Committee the procedures set forth in Section 11-356 shall apply.~~

SECTION 8: AMENDMENT "11-358 Inspections" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-358 Inspections

No building may be used as a tourist rooming house unless it has been inspected by the Village Fire Inspector and Village Building Inspector and the inspection shows no violations or hazards adversely affecting the health and safety of occupants or property maintenance violations. Each separate dwelling unit that is offered for rental as a tourist rooming house is required to be inspected annually by the Village Fire Inspector and Village Building Inspector. The holder of or applicant for the ~~temporary~~tourist rooming house permit, or property owner if no permit is required, is responsible for payment of the inspection fees.

SECTION 9: AMENDMENT "11-359 Content Of Nuisance Response Plans" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-359 Content Of Nuisance Response Plans

Each nuisance response plan accompanying an application for a permit required by this chapter shall contain the following information and otherwise be in a form required by the Village Clerk-Treasurer:

(a) The mailing address and telephone number of the owner or owners of the residential dwelling unit or units to be used as a ~~short-term vacation rental~~ tourist rooming house pursuant to the permit;

(b) The name, address and telephone number of the local agent(s) who will be available by telephone, and who will be responsible for promptly responding to or causing a prompt response to a nuisance complaint arising out of the occupancy or use of the ~~short term rental~~ tourist rooming house by tenants, their visitors or their guests. For the purposes of this Section, a return telephone call to a complainant within 45 minutes of the initial complaint shall be deemed "prompt."

(1) No more than a total of three persons shall be designated in the response plan as a person responsible for responding to or causing a response to a nuisance complaint; and

(2) Only one such person shall be designated as the person responsible for responding to a nuisance complaint during any particular hours of the day, different days in a week, or different weeks of the year;

(3) Any such person designated shall have the powers of a local agent.

(c) The manner of responding to or causing a response to a nuisance complaint, including but not limited to the manner in which the complainant or complainants will be notified of the response and the method of documenting prompt responses and timely corrective action.

(d) The manner of assuring timely corrective action to remedy the conditions that caused the nuisance complaint. For the purposes of this chapter, "timely corrective action" shall include, at a minimum, a telephone call to the primary adult occupant of the ~~short-term vacation rental~~ tourist rooming house within 30 minutes of the initial nuisance complaint.

(e) ~~The proposed maximum number of overnight occupants.~~

(f) The number of off-street parking spaces and number of bedrooms available at the ~~short-term vacation rental~~tourist rooming house.

SECTION 10: **AMENDMENT** "11-361 Standards For Tourist Rooming Houses" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-361 Standards For Tourist Rooming Houses

Each tourist rooming house shall comply with all applicable Village ordinances and all the following requirements:

(a) *Space, occupancy and parking.* Each tourist rooming house shall have:

(1) Not less than one bathroom for every six occupants;

(2) ~~Not less than 150 square feet of floor space for the first occupant thereof and at least an additional 100 square feet of floor space for every additional occupant thereof; the floor space shall be calculated on the basis of total habitable room area. Floor space is determined using interior measurements of each room. Floor space does not include kitchens, bathrooms, closets, garages,~~
~~or rooms not meeting Uniform Dwelling Code requirements for occupancy~~Maximum renter occupancy shall not exceed the lesser of two times the number of legal bedrooms to be rented in the residential dwelling or 12. Children 12 and under shall not count towards the maximum renter occupancy.

(3) A maximum occupancy for any premises without a separate enclosed bedroom is two people;

(4) ~~Not less than one and one-quarter onsite off-street parking spaces for every four occupants based upon maximum occupancy.~~ Off-street parking spaces on the property shall be available to the renters. The minimum number of offstreet parking spaces available for renters shall be as required for the type of dwelling unit as set forth in the Village Zoning code. The operator shall designate off-street parking spaces for renters on the property in accordance with the standards outlined in the Village Zoning Code, including but not limited to Subdivision IV, Vision Clearance, Parking and Loading Facilities. Parking space limit shall appear in all advertising for the tourist rooming house. Parking spaces must be accessible to renters at all times to be considered valid under this section.

(b) *Safety requirements.* Each tourist rooming house shall comply with the following~~have~~:

(1) Shall have ~~A~~a safe, unobstructed means of egress leading to safe, open space at ground level;

(2) Shall have ~~F~~functional smoke detectors and carbon monoxide detectors in accordance with the requirements of Wis. Admin. Code Ch. SPS 362;

(3) No accessible wood burning fireplace unless the owner provides a certificate from a licensed commercial building inspector, dated not more than 30 days prior to submission, certifying that the fireplace and chimney have been inspected and are in compliance with National Fire Prevention Association Fire Code Chapter 211 Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances.

(4) No hibachi, gas-fired grill, charcoal grill, or other similar devices used for cooking, heating, or any other purpose on any balcony, deck or under any overhanging structure or within ten feet of any structure.

(5) Outdoor fireplaces and pits or bowls or pits designed for the holding or burning of wood shall be allowed, as long as the following conditions are met:

a. Pits shall have an enclosure, heavy screen, or spark arrestor to control and contain embers and sparks.
b. Fireplaces or pits shall not be used within ten (10) feet of a building, combustible structure or lot line.
c. Only clean, dry wood is permitted to be burned in fireplaces or pits. No trash, yard waste or construction material shall be burned.
d. The smoke from a fireplace or pit shall not create a nuisance.
e. A fire extinguisher, garden hose, or other method of fire control shall be readily available.
f. The fireplace or pit must be supervised at all times by a responsible adult. the first must be completely extinguished before the fireplace or pit is left unsupervised.

(6) A functional fire extinguisher shall be provided within 30' of any indoor cooking equipment. Any required fire extinguisher shall be UL rated 1-A: 10B:C Any provided fire extinguisher shall be maintained (including annual inspection by a licensed fire extinguisher service provider) and installed in accordance with the National Fire Protection Association standard for Portable Fire Extinguishers.

(c) *Orderly operation and use.*

(1) The owner and local agent shall comply with all terms of an approved nuisance response plan.

(2) ~~No tourist rooming house shall permit any number of daytime guests of renters in excess of 100 percent of the maximum occupancy limit of the tourist rooming house to be present on the property at any time~~Owners and renters of the tourist rooming house are prohibited from allowing guests in excess of the maximum occupancy limit established in 11-361(a) at any time.

(3) The owner shall require the primary overnight and daytime occupant of the tourist rooming house to be an adult 18 years of age or older. This adult shall provide a telephone number to the owner or local agent and shall be accessible to the owner or local agent by telephone at all times.

(4) Prior to occupancy, the owner or local agent shall obtain the name, address, and driver's license number or a copy of the passport of the primary adult occupant of the tourist rooming house. The owner shall require that adult to sign a formal acknowledgement that he or she is legally responsible for compliance of all occupants of the tourist rooming house or their guests with all provisions of this chapter. This information shall be readily available upon request of any police officer or employee of the Village~~city~~ authorized to enforce this chapter or state law.

(5) Trash and refuse shall not be left stored within public view, except in proper containers for the purpose of collection. The owner of the tourist rooming

house shall provide sufficient trash collection containers and service to meet the demand of the occupants.

(6) Each lease or rental agreement for a tourist rooming house shall include the following terms, notifications and disclosures, which shall also be posted in a conspicuous location inside the unit:

a. The maximum number of overnight occupants and day use visitors that are permitted.
b. The number of off-street parking spaces that are provided.
c. Notification that on-street parking is extremely limited in some areas of the Village.
d. The trash pick-up day and applicable rules and regulations pertaining to leaving or storing trash or refuse on the exterior of the property.
e. Notification that the occupant may be cited or fined by the Village or immediately evicted by the owner or local agent, in addition to any other remedies available at law, for violating any other provisions of this Article.
f. Notification that failure to conform to the occupancy requirements of the tourist rooming house is a violation of this Article.
g. Notification that amplified sound, including radios, televisions and other electronic devices are subject to the Village's noise regulations as set forth in Sections 20-58, 20-59, 20-77, 20-79 and 20-80, copies of which shall also be provided.
h. A recommendation that the occupant participate voluntarily in neighborhood quiet hours by avoiding parties and loud social events between the hours of 10:00 p.m. and 7:00 a.m.
i. The name of the owner of the unit, local agent and a telephone number at which at least one or the other may be reached at all times.
j. A copy of the "Good Neighbor Guidelines" which may from time to time be prepared by the permit administrator. These guidelines may include location-specific information, such as local speed limits and parking limitations.
k. Notification that usage of outdoor fireplaces and pits are required to comply with section 11-361(b)(5).
l. A copy of this Article and Sections 20-58, 20-59, 20-77, 20-79 and 20-80 of the McFarland Municipal Code, as it may be amended from time to time.

(7) Upon receipt of a nuisance complaint or upon notification that any occupant or guest of the ~~short-term vacation rental~~ tourist rooming house has created unreasonable noise or disturbances, engaged in disorderly conduct, or committed violations of the McFarland Municipal Code or any state law,

the owner or local agent shall promptly respond and take timely corrective action to prevent a recurrence of such conduct by those occupants or guests. Failure of the owner or local agent to respond promptly or to take timely corrective action regarding the condition, operation, or conduct of occupants of the tourist rooming house shall be a violation of this chapter. An owner or local agent is not required or authorized to act as a peace officer or to intervene in situations that pose a risk to personal safety. The owner, or local agent, shall maintain records of the name, violation, date, and time of each complaint, disturbance, response and corrective action.

(8) The owner and local agent shall keep written records documenting compliance with all elements of the performance standards and the approved nuisance response plan.

(9) At all times the use and occupancy of a tourist rooming house shall comply with the McFarland Zoning Code.

(10) At all times the owner of the tourist rooming house shall maintain the dwelling unit as required under the McFarland Building Code, Article 8-XIII, Minimum Maintenance Requirements for Real Property.

(11) Restrictions on rentals of fewer than seven (7) days. No tourist rooming house may be rented for periods of time fewer than seven (7) consecutive days unless the tourist rooming house is owned and operated by a Village Resident or a Village Business.

(12) A Tourist Rooming House permit is required to be obtained no later than the tenth day of advertising or operating a tourist rooming house. All advertisements of the tourist rooming house, including advertisements on the website of a lodging marketplace, must contain a valid tourist rooming house permit number, clearly state the minimum duration of stays allowed, and state the limit for renter parking spaces. Lodging marketplace calendars must block renters from making reservations that are not complaint with minimum duration of stay requirements.

SECTION 11: **AMENDMENT** "11-362 Taxes And Fees" of the Village of McFarland Municipal Code is hereby *amended* as follows:

AM EN DM EN T

11-362 Taxes And Fees

The owner or operator of a tourist rooming house shall pay room tax in accordance with Chapter 23, Article II, Division 6 of the McFarland Municipal Code. Fees under this Article shall be as established by the Village Board from time to time and set forth in Appendix A of

this Code. Failure of the owner or operator to pay a required room tax, or failure by the owner or operator to timely file an accurate return required under Chapter 23, shall be grounds for summary suspension of a tourist rooming house permit. In the event the Village ClerkTreasurer determines that an owner or operator of a tourist rooming house is in violation of this section or Chapter 23, Article II, Division 6, then an order for immediate suspension of the tourist rooming house permit shall be issued which shall be effective until such violation is corrected. Such order shall be served upon the owner or local agent in writing and shall include notice of the right to appeal such determination pursuant to Chapter 2, Article XI of the McFarland Municipal Code.

SECTION 12: This ordinance shall be effective upon its enactment and publication as provided by law, except that SECTION 10 above, which amends section 11-361 of the Code, shall become effective on July 1, 2024 for existing tourist rooming house permits.

PASSED AND ADOPTED BY THE VILLAGE OF MCFARLAND VILLAGE BOARD _____.

	AYE	NAY	ABSENT	ABSTAIN
Brandt				
Brassington				
Clow				
Fessler				
Flaherty				
Jerke				
Wreh				

Presiding Officer

_____

Attest

_____

Carolyn Clow, Village President, Cassandra Suettinger, Deputy Administrator/Clerk

				Effects of changing Occupany Calculation				Effects of Changing Parking Calculation				Effects of Residency Change	
Permit Number	Name	Address	Agent	Current Maximum guests	# of Bedrooms	New Maximum Occupany	Effect of Occupancy Change	Current Parking Stalls Required	Parking Stalls Available	New Parking Requirements	Effect of Parking Change	Village Resident?	Effect of Residency Change
2022-01	Qwest Sustainabilities, LLC/Matthew Duffy	the property located at 5703 Red Oak Trl	None	8	4.00	8.00	No Change	2.50	4.00	3.00	Reduction in what's required	Yes	No Change
2022-02	Nora Bird/Nick Hougas	the property located at 4514 Wisconsin Ave	None	2	1.00	2.00	No Change	1.25	2.00	2.00	No effect	No*	Effect 7/1/24 can only rent for stays of 7 days or more
2022-03	Lake Edge Ventures LLC	the property located at 5720 Lake Edge Road	Kelvin Veldre	6	2.00	4.00	Reduction in occupancy by 2	1.88	2.00	2.00	No effect	No*	Effect 7/1/24 can only rent for stays of 7 days or more
2022-04	Bolha Short-Terms Rentals	the property located at 6011 South Court	None	6	2.00	4.00	Reduction in occupancy by 2	1.88	3.00	2.00	Reduction in what's required	No*	Effect 7/1/24 can only rent for stays of 7 days or more
2022-05	Wendy Unke	the property located at 5438 Bremer Rd	None	6	3.00	6.00	No Change	1.88	3.00	2.00	Reduction in what's required	Yes	No Change
2022-06	McFarland House Café, Inc.	5923 Exchange St, Second Floor, Unit 1	None	4	2.00	4.00	No Change	1.25	7.00	2.00	No effect	Yes	No Change
2022-07	TSM Rentals	the property located at 5024 Card Ave	Jennifer Sonnentag	6	3.00	6.00	No Change	1.88	2.00	2.00	No effect	Yes	No Change
2022-08	6131 Exchange LLC	the property located at 6131 Exchange St	Shaun O'Hearn	6	3.00	6.00	No Change	1.88	3.00	2.00	Increase, but can meet	Yes	No Change
2022-09	Carolyn Rink/Chris Fugate	the property located at 6611 Sleepy Hollow Rd	None	8	3.00	6.00	Reduction in occupancy by 2	2.5	5.00	2.00	No effect	Yes	No Change
2022-10	Waubesa Performance Property Management LL	the property located at 6008 Lake Edge Rd	None	8	3.00	6.00	Reduction in occupancy by 2	2.50	4.00	2.00	Reduction in what's required	No*	Effect 7/1/24 can only rent for stays of 7 days or more
												*Based on known information, verification would be needed.	

Community	Approved ordinance?	Public Health of Madison & DC License Required?	Other licensing required?	Minimum stay before permit required	Minimum stay Requirement?	Max stays allowed per year	Max # of Guests	# of occurances before revocation process	Primary Residence Clause?	Restrictions tied to Primary Residence clause?	Transferrable?	Off-Street Parking	Comments and other restrictions
McFarland	Yes	Yes	Seller's Permit	10 days/year	N/A	UNKWN	150 SF + (100 SF of habitable room area) = Total # of Guests	2	No	N/A	No	1.25/4 occupants	does not cap the maximum # of guests, based on SF avaliable. 2 people max for non-bedroom spaces
Madison	Yes	Yes	ZTRH Permit	UNKWN	1-6 daysfor Primary Resident, 6-29 days for non-primary residence	UNKWN	2 times the legal bedrooms or 12. Children do not count towards the limit.	2	Yes	Yes. If operator occupies the residence, there is no limit to the days they may operate. If not, may only operate 30 days per year.	No	UNKWN	ZTRH Permit = Zoning Tourist Rooming House Permit (implemented 10/1/2020)
Mt Horeb	Yes	Yes	Conditional Use Permit	UNKWN	2+	UNKWN	UNKWN	By Plan Commission's review	N/A	N/A	No	1 space/sleeping room	Quiet Hours 10:00 PM - 7:00 AM; requires map of property lines, but not floor plan; on-street parking not allowed
Monona	Yes	Yes	No	14 days/year	1-6 daysfor Primary Resident, 6-29 days for non-primary residence	If non-primary residence, stays must between 6 -29 days, only operate 180 days in a 365 day period, only operate 30 days per permitting year.	2 times the legal bedrooms or 12. Children do not count towards the limit.	UNKWN	Yes	Must be the operator's primary residence to operate stays of 1 to 6 days.	No	UNKWN	it shall be unlawful for any person to operate a short term rental property (STR) in the City of Monona for fifteen (15) or more days in any calendar year without a permit issued by the City Administrator or designee
Waunakee	Yes	Yes	Seller's Permit	10 days/year	6-29 days	180 days of 365 days;	150 SF + (100 SF of habitable room area) = Total # of Guests	3	Yes	Not specific, baseline requirement to operate is that the TRH be the primary residence	UNKWN	1 space/sleeping room	Quiet Hours 10:00 PM - 7:00 AM; Property manager within 25 miles
Town of Dunn	Yes	Yes	N/A		1-6 daysfor Primary Resident, 6-29 days for non-primary residence	If non-primary residence, stays must between 6 -29 days, only operate 180 days in a 365 day period, only operate 30 days per permitting year.	2 times the legal bedrooms or 12. Children do not count towards the limit.	N/A	Yes	Must be the operator's primary residence to operate stays of 1 to 6 days.	No	Only off-street parking allowed. Parking space limit to be included in advertisements	Mus+J1:N7t stay with guest the entire duration under the primary residence rules. Contain a clause that a permit is rqeuired before they can advertise.

Cassandra Suettinger

From: Pete Zeimet <zeimet1@yahoo.com>
Sent: Monday, June 19, 2023 7:57 PM
To: Village Clerk
Subject: Comments about Tourist Rooming Houses

I saw your letter about the update and public hearing regarding tourist rooming houses. I won't be able to attend the meeting in person, but I wanted to share some comments.

In general, I am not in favor of an ordinance restricting short-term rentals. What problem are they trying to solve? Instead, it limits commerce and short-term tourism, like Airbnb stays, which are a needed service. Many people travel for short durations, such as to visit family or attend an event in the area. It's good for consumers to have choices. Some prefer a house-like environment so they have access to a kitchen. For those with severe allergies, having access to a kitchen for meal preparation is necessary.

For the record, I own a duplex in McFarland and all my tenants are long-term. My tenants have been with me for years, so I have no personal stake in the short-term rental market. That said, I understand why motel/hotel owners would be in favor of restricting them as they represent competition.

In the Summary document, that means I'm not in favor of (1) and (2). For (1), I don't see what difference it would make if the owner is a village resident or not. Again, what problem is this trying to solve?

A few additional points:

- Some residents are low-income and rely on the ability to rent a room from time to time to supplement their income
- Short-term rentals are a thriving market and McFarland has demand.
- Consumers should have a right to rent, and homeowners should have a right to rent out--unless there is a clear and extraordinary reason to restrict this freedom
- If residents are worried about noise, the village can enforce noise ordinances which are probably already on the books (I did not check)
- I'm in favor of the other changes, such as (8) to ensure a safe occupancy level and prevent parking congestion

Thank you,

Pete Zeimet
Owner: 4601 Severson Street, McFarland

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Community Development**

CONTACT: **Andrew Bremer, Comm & Eco Dev Director**

AGENDA ITEM: **Discussion and action regarding streetscaping services within Segment 7 of the USH 51 WisDOT Project.**

PREVIOUS ACTION:
6.20.2023 Plan Commission unanimously recommended approval of the contract.

ISSUE SUMMARY:
The Wisconsin Department of Transportation (WisDOT) is completing engineering design documents for the reconstruction of USH 51 from Stoughton to Meinders Road in McFarland. Refer to the WisDOT project website for additional details. This project includes two segments within the Village, Segment 6 (Exchange to Larson Beach) and Segment 7 (Larson Beach to Meinders). Segment 7 includes the area of USH 51 that includes the existing ramps at Siggelkow Road. Construction of this segment is estimated to begin in year 2025. The WisDOT preliminary design includes installing roundabouts at the USH 51 and Siggelkow Road ramp entrances and exits. The WisDOT default design for these roundabouts would be minimal treatment, consisting of a small mound and planting grass in the central islands. These roundabouts will serve as a primary entry feature for vehicles traveling to and from the Village and, as such, there is an opportunity to design the roundabouts to include more enhanced and attractive streetscaping/landscaping features in keeping with the Village's brand. Staff is proposing to engage SEH to develop streetscaping concepts for the roundabouts addressing items including landscaping, terraces, wayfinding signage and crosswalk enhancements, etc. SEH previously assisted the Village with conceptual designs for the future replacement of the Village's two gateway signs along USH 51. SEH will work with Village staff and the Plan Commission to develop a preferred concept for submittal to WisDOT. The design themes could likely be carried forward for consideration for proposed roundabouts in Segment 6, which is scheduled for reconstruction between 2026-2028, with a final date to be determined.

FINANCIAL/BUDGET IMPACT:
Funding for this project will utilize existing TID #3 revenues.

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Motion, second, to approve a contract with SEH in the amount of $14,900.00 for streetscaping services within Segment 7 of the USH 51 WisDOT Project.

ATTACHMENTS:

1. Letter Agreement_McFarland Siggelkow LA_06012023
2. siggelkowroundabout22

Agreement for Professional Services

This Agreement is effective as of June 1, 2023, between Village of McFarland (Client) and Short Elliott Hendrickson Inc. (Consultant).

This Agreement authorizes and describes the scope, schedule, and payment conditions for Consultant's work on the Project described as: **Siggelkow Road Roundabout Schematic Landscape Design**

Client's Authorized Representative: Matt Schuenke
Address: 5915 Milwaukee Street
McFarland, WI 53558
Telephone: 608-838-3153 **email:** matt.schuenke@mcfarland.wi.us

Project Manager: Nate Day
Address: 6808 Odana Road, Suite 200
Madison, WI 53719
Telephone: 608.620.6185 **email:** nday@sehinc.com

Scope: The Basic Services to be provided by Consultant as set forth herein are provided subject to the attached General Conditions of the Agreement for Professional Services (General Conditions Rev. 05.15.22), which is incorporated by reference herein and subject to Exhibits attached to this Agreement.

1. WISDOT Meeting #1: Kickoff Meeting
    a. Review the Village's design intent
    b. Discuss WISDOT design parameters and expectations for the design
    c. Request base data for design (WISDOT design and survey files)

2. Conceptual design alternatives
    a. Consultant to develop two alternative design concepts that explore how plantings, stone, wayfinding sign placement, and decorative pavements can be leveraged to beautify the roundabouts and surrounding areas
    b. Alternatives will be presented using simple diagrammatic color plan renderings, precedent imagery, and sketches as needed to communicate design intent.

3. Village staff meeting # 1
    a. Consultant to meet with Village Staff to review design alternatives and solicit feedback.
    b. Up to one round of revisions is anticipated to prepare concept alternatives for presentation to the plan commission.

4. Plan Commission meeting #1
    a. Design alternatives will be presented to the Village Plan Commission to receive feedback and select a preferred design direction

5. Preferred concept design
    a. Based on feedback from Village Staff and the Plan Commission, one design alternative will be selected and refined.
    b. The preferred concept will be presented via plan rendering, precedent imagery, and sketches as needed to communicate design intent.
    c. A high level, conceptual opinion of probable cost will be developed for preliminary budgeting

6. Village staff meeting #2
    a. Internal meeting with Village staff to review preferred concept design and solicit feedback
    b. One revision to incorporate comments is anticipated prior to meeting with WISDOT staff.

7. WISDOT Meeting #2: Coordination meeting
    a. Meet with Village and WISDOT Staff to gain input on preferred concept design
    b. One revision to incorporate comments is anticipated

8. Plan Commission meeting #2
    a. Present the preferred and vetted alternative concept to the Plan Commission for Approval
    b. If needed, up to one additional round of revisions is included to incorporate Plan Commission Comments

Assumptions:

1. The concept will be developed based on aerial photography, survey and design data made available by WISDOT staff and consultant.

2. The following items are not included in this scope of services but can be provided for an additional fee:
    a. Site survey
    b. 3D visualization
    c. Construction design drawings and specifications
    d. Irrigation design
    e. Construction administration
    f. Regulatory permitting

Schedule: The project is expected to begin in June 2023 with final schematic design drawings delivered by December 2023.

Payment: The lump sum fee is $14,900 including expenses and equipment.

The payment method, basis, frequency and other special conditions are set forth in attached Exhibit A-2.

This Agreement for Professional Services, attached General Conditions, Exhibits and any Attachments (collectively referred to as the "Agreement") supersedes all prior contemporaneous oral or written agreements and represents the entire understanding between Client and Consultant with respect to the services to be provided by Consultant hereunder. In the event of a conflict between the documents, this document and the attached General Conditions shall take precedence over all other Exhibits unless noted below under "Other Terms and Conditions". The Agreement for Professional Services and the General Conditions (including scope, schedule, fee and signatures) shall take precedence over attached Exhibits. This Agreement may not be amended except by written agreement signed by the authorized representatives of each party.

Other Terms and Conditions: Other or additional terms contrary to the General Conditions that apply solely to this project as specifically agreed to by signature of the Parties and set forth herein:
None.

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Short Elliott Hendrickson Inc.	**Village of McFarland**
By: _____	By: _____
Nate Day, AICP	
Title: Project Manager	Title: _____

Exhibit A-2
to Agreement for Professional Services
Between Village of McFarland (Client)
and
Short Elliott Hendrickson Inc. (Consultant)
Dated June 1, 2023

Payments to Consultant for Services and Expenses Using the Lump Sum Basis Option

The Agreement for Professional Services is amended and supplemented to include the following agreement of the parties:

A. Lump Sum Basis Option

The Client and Consultant select the Lump Sum Basis for Payment for services provided by Consultant. During the course of providing its services, Consultant shall be paid monthly based on Consultant's estimate of the percentage of the work completed. Necessary expenses and equipment are provided as a part of Consultant's services and are included in the initial Lump Sum amount for the agreed upon Scope of Work. Total payments to Consultant for work covered by the Lump Sum Agreement shall not exceed the Lump Sum amount without written authorization from the Client.

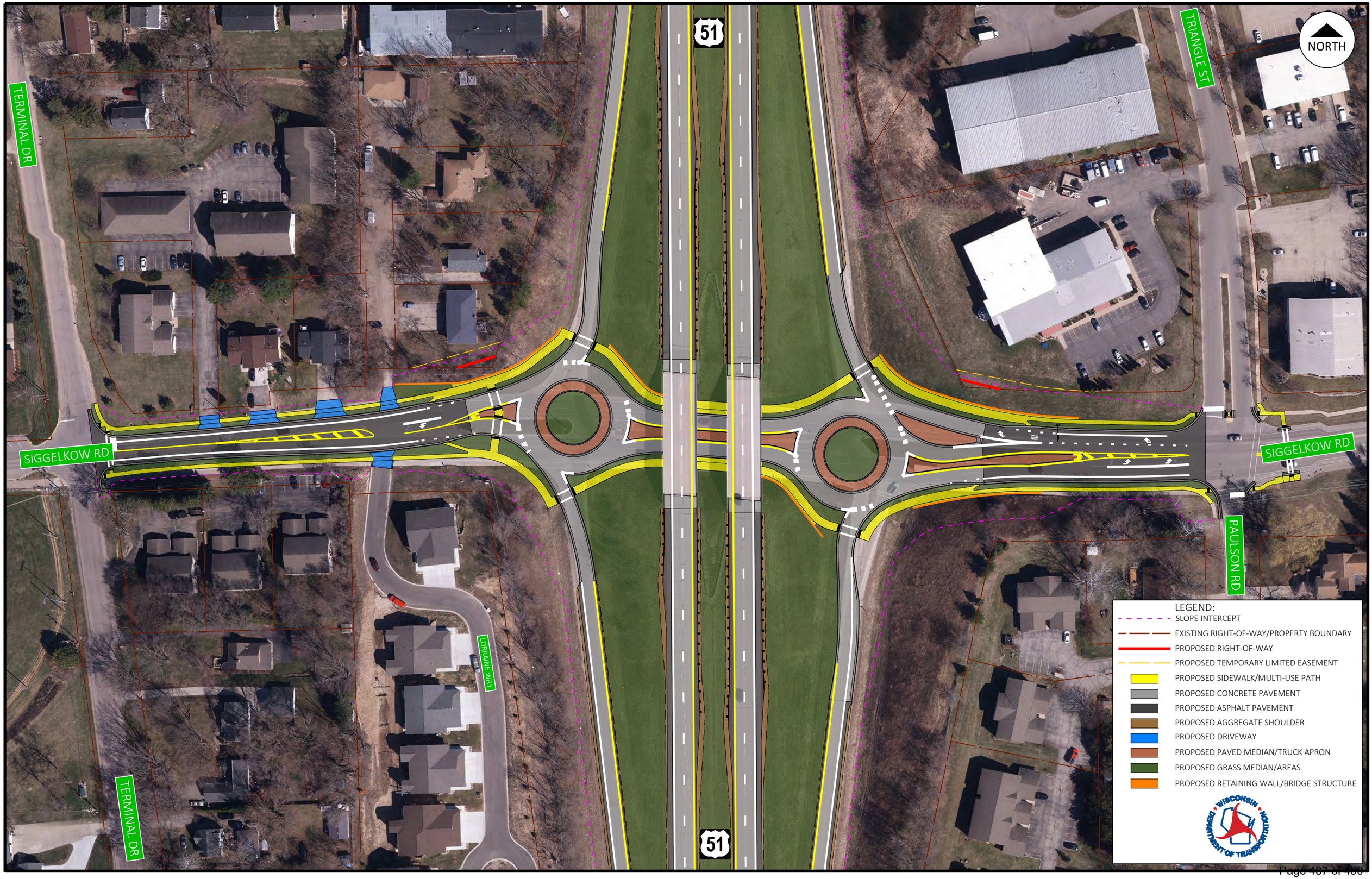
The Lump Sum amount includes compensation for Consultant's services and the services of Consultant's Consultants, if any for the agreed upon Scope of Work. Appropriate amounts have been incorporated in the initial Lump Sum to account for labor, overhead, profit, expenses and equipment charges. The Client agrees to pay for other additional services, equipment, and expenses that may become necessary by amendment to complete Consultant's services at their normal charge out rates as published by Consultant or as available commercially.

B. Expenses Not Included in the Lump Sum

The following items involve expenditures made by Consultant employees or professional consultants on behalf of the Client and shall be paid for as described in this Agreement.

1. Expense of overtime work requiring higher than regular rates, if authorized in advance by the Client.
2. Other special expenses required in connection with the Project.
3. The cost of special consultants or technical services as required. The cost of subconsultant services shall include actual expenditure plus 10% markup for the cost of administration and insurance.

The Client shall pay Consultant monthly for expenses not included in the Lump Sum amount.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PAULSON RD
LORRAINE WAY
TERMINAL DR
51
LEGEND:
SLOPE INTERCEPT
EXISTING RIGHT-OF-WAY/PROPERTY BOUNDARY
PROPOSED RIGHT-OF-WAY
PROPOSED TEMPORARY LIMITED EASEMENT
PROPOSED SIDEWALK/MULTI-USE PATH
PROPOSED CONCRETE PAVEMENT
PROPOSED ASPHALT PAVEMENT
PROPOSED AGGREGATE SHOULDER
PROPOSED DRIVEWAY
PROPOSED PAVED MEDIAN/TRUCK APRON
PROPOSED GRASS MEDIAN/AREAS
PROPOSED RETAINING WALL/BRIDGE STRUCTURE
WISCONSIN DEPARTMENT OF TRANSPORTATION

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Public Works**

CONTACT: **Lee Igl, Public Works Director**

AGENDA ITEM: **Discussion and action regarding Pellitteri's proposal for refuse collection services.**

PREVIOUS ACTION:
None.

ISSUE SUMMARY:
The Village originally contracted with Pellitteri Waste Systems in 2014 for refuse and recycling collections. The contract was then renewed in 2018 when Pellitteri switched to an automated collection system. The contract is due to expire on December 31, 2023. Village staff have been in discussion with Pellitteri regarding renewing the current services and to include some additional services for residents.

Additional services could include:

1. Two curb side bulk (large item) collections annually.
2. Electronics collection event annually.
3. Shredding collection event annually.

The Public Works & Utilities Committee will review the proposal from Pellitteri regarding refuse collection services at their June 26, 2023 meeting. Staff will provide an update of the action recommended by the committee.

FINANCIAL/BUDGET IMPACT:
Pellitteri bills the Village on a monthly basis for all contracted services. The village includes a special charge on a residential customer's property tax bill. Only customers who receive curbside collection through the Village's contract receive this special charge.

VILLAGE PLAN REFERENCE:
None.

ORDINANCE REFERENCE:
None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Recommended motion:

Motion, second to recommend approval regarding a proposal from Pellitteri for refuse collection services as presented.

ATTACHMENTS:

1. Village of McFarland 2023 Extension FINAL

A TRADITION of SERVICE Since 1939

Pellitteri WASTE SYSTEMS

Village of McFarland

Contract Extension Proposal for Residential Refuse & Recycling Collection Services

June 1, 2023

Lee Igl
Director of Public Works

Narrative for Village of McFarland Contract Extension Proposal

18 years ago, Pellitteri Waste Systems set out to find the first municipality to entrust us in providing fully-automated curbside trash and recycling services. Today, we continue to serve that same community who was willing to let us show that we could do it. Over the span of 18 years, Pellitteri has more than proven our ability to provide this service. Our focus has shifted from showing that we can, to showcasing what makes us the local industry leader, adding to more than 67,000 households serviced by Pellitteri Waste Systems.

- To date, we have implemented fully-automated residential refuse and recycling service systems in 38 municipalities and 45 private homeowner associations.

- Of the 38 municipal curbside residential contracts awarded since inception of our program, we have a 100% renewal rate. We thank the Village of McFarland for our successful 10-year partnership and look forward to continuing to service your community with the highest level of customer service and expanded recycling options in the area.

- We were the proud recipients in February to receive the Outstanding Achievement in Recycling Education Award from the Associated Recyclers of Wisconsin, an association representing Wisconsin's recycling, waste reduction and sustainability professionals. The organization provides leadership through education, advocacy, and collaboration and promotes effective, efficient and sustainable material recovery initiatives.

- Pellitteri Waste Systems was selected to receive and sort the City of Madison's 20,000 annual tons of collected recyclable material while also being the exclusive waste hauling company for Dane County, servicing County-owned facilities and parks for the last 20 years and more to come.

Meeting the needs of our customers has always been the first priority at Pellitteri Waste Systems. We are pleased to continue to offer our 'customer first' services to the Village of McFarland and its residents.

In addition to our 'customer first' service approach, there are many aspects of Pellitteri Waste Systems that set us apart in our industry:

- Being a family-owned and operated company for over 44 years allows us to offer your community a personalized family-to-family approach. This approach, along with our 100+ employees and 60+ trucks, benefits all of our residential customers by providing unmatched service and response to meet each residents' individual needs.

- We own and operate a state-of-the-art recycling material recovery facility (MRF), Kipp Street Station. We are devoted to helping our customers increase the amount of items and materials that can be recycled instead of filling up a landfill. This leads to solutions for our customers that are environmentally and fiscally responsible. Managing our own processes also enables us to accept items you would not be able to recycle elsewhere such as milk cartons, properly prepared shredded paper, paper cups, and pots & pans. Another benefit to partnering with Pellitteri is our ability to accept bagged recyclables, a program that has been discontinued by most other waste haulers in Wisconsin. Last, but certainly not least, we are proud to say we have never sent glass to a landfill, something that is disappointingly common in our industry. Letter of reference from Strategic Materials provided.

- ***Pellitteri Data Destruction*** is trusted by the above-mentioned customers to handle the confidential document destruction servicing of their organizations by our industry leading NAID AAA-rated service – a service that recycles over 99% of materials handled.

Local Family-owned and Operated Makes a Difference!

Our Mission

To continue the Pellitteri family business's tradition of service by promptly responding to customer needs, offering individualized solutions, effectively communicating and following through. These solutions will be environmentally and fiscally responsible. Our commitment to safety, professionalism, and personal growth will foster an environment which benefits our team, clients and community.

Our Business Values

Be honest and truthful in all matters.

Treat all people as we want to be treated.

Work safely.

Be good stewards of our environment.

Follow all rules and regulations.

Be friendly and positive, promote a spirit of excitement.

We are truly the only family-owned and family-managed waste and recycling **full-service company** in the area. We are a full-transparency company with owners who live in Dane County and proudly put their family name on the business. There is a lot at stake personally when your name is on the trucks and you are raising a family within the markets you are servicing. As you can see, Pellitteri Waste Systems is committed to staying family owned for generations to come!

We are the only waste company in the area to own and operate a fully automated, state of the art, recycling recovery facility complete with an educational room for our customers to visit and further educate themselves on recycling via guided tours. We control the quality of our end product, and we take careful strides in our effort to ensure things get recycled properly (glass and milk cartons as examples, see attached letters).

Value Added Benefits From a Local Family-Owned Company

- Website webpage dedicated specifically to the Village of McFarland residents with holiday notices, collection calendars, recycling information including 20 recycling tip videos, many FAQ's and interaction through social media platforms.

- A local, fully staffed, customer service team dedicated to helping Village of McFarland residents and Administration with anything they may need.
    - Numerous reuse and recycling options given prior to setting up 'bulky item' pick-ups.
    - Educate new residents on cart program and collection schedules.
    - Talk to a Pellitteri anytime.
    - Office hours are 7:30 AM – 4:30 PM Monday through Friday, we do have an after-hours answering service as well.

- We have included a list of compliments received from Village residents and testimonials from some of our other municipalities who speak to the value of working with a live, locally staffed team. Our staff has a direct line of communication with the drivers who service your community, streamlining communications for any unexpected changes or requests.

- Coupons for our other services on the annual residential service calendars provided as a PDF.

- Email notification of Holiday service day changes. Residents are encouraged to sign up for our email notices on our website.

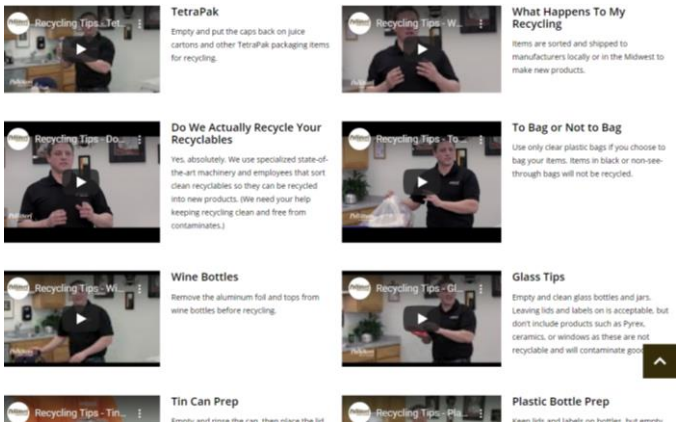
- Prompt and timely reporting for Village staff.

- Newly Launched- Please check it out!
    - A searchable recycling database and mobile app specific to Village resident's collection schedules, including service reminders and the option to sync to your personal calendar! (download 'Pellitteri Waste Systems app' in your mobile apps)

Our Efforts to Reduce Waste

With the constant evolution of technology, we continue to make strides by implementing equipment to automate processes and minimize the amount of recyclables getting through our system and not being recognized accordingly. State-of-the-art robotic arms that assist in the sorting efforts with pinpoint accuracy to ensure the efforts of the public are not going to waste by having clean recyclables discarded as trash.

We continue to expand our fleet of trucks to include compressed natural gas (CNG) vehicles to take advantage of the abundant American-generated natural gas and the growing number of CNG stations – including those popping up at landfills around the country where the gas given off from trash is converted into truck fuel.



In addition to offering free guided tours of our MRF, Kipp Street Station, we back up our commitment to recycling by producing videos on recycling tips in today's challenging recycling market. Our goal is to minimize any confusion on recycling by continuing to educate the public on the proper ways to recycle while minimizing contamination; <u>we currently offer 20+, 1-minute videos with recycling tips for your residents and a 7-minute video showing you what happens to your recycling once it arrives at the recycling facility</u>.

To our knowledge we are the only local private hauler to successfully complete an organics pilot program in the area. As soon as the infrastructure is proven to be in place to facilitate organics composting/recycling, we would be very pleased to explore options for providing organic waste collection to the Village of McFarland. See included slide for information/press release.

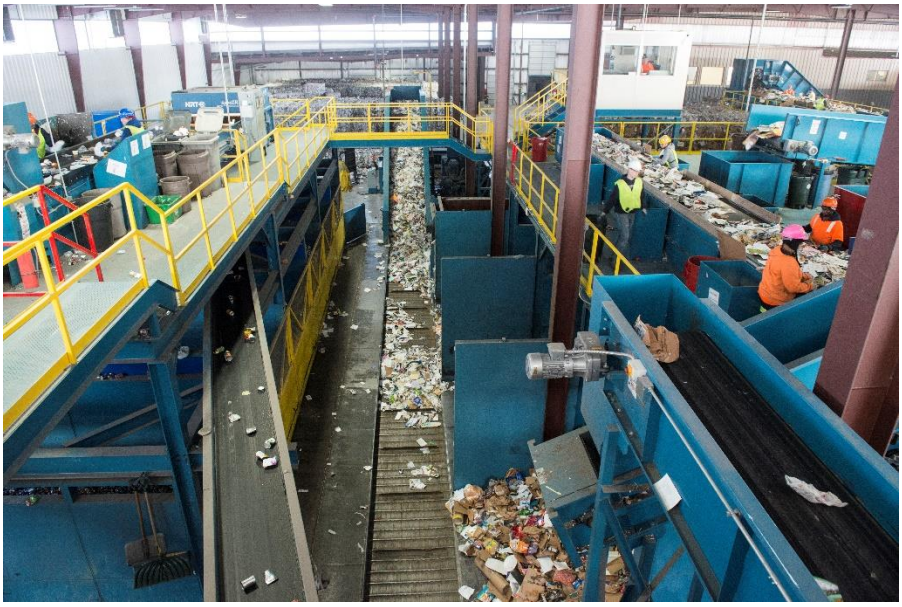
Ongoing Recycling Efforts

We are always looking at ways to increase the value of recyclables and produce a clean product that processors can use. Our track record of innovation supports our desire to constantly revolutionize our processes. We have always been open to programs brought to us by our communities, which we would welcome from McFarland should you decide to continue to partner with Pellitteri Waste Systems.

- We recently added technology to our system that will further separate smaller OCC boxes from the mixed paper stream to be properly placed into the OCC stream. Previously a larger percentage of these smaller boxes were being recycled in the Mixed Paper stream which means they were only able to be turned into tissue paper, essentially making them end of life products. By investing in technology to move these boxes into the OCC stream, it increases the percentage of OCC and ensures the OCC is turned into cardboard boxes that can be recycled multiple times.

- We have also added more sorting technology to further enhance the plastic sorting capabilities at our MRF. This project focused on capturing more of the recycling containers that are not properly prepared. For example, a PET bottle that has more residue within the bottle than the previous system could handle would be discarded as residual. Through upgrades, we are attempting to capture that PET bottle and keep the residual trash down, lowering the costs associated with residual.

- Additionally, we received a grant from the Paper Cup Institute to implement and promote paper cup recycling within our curbside program. This has allowed us to add hot and cold paper cups to the list of accepted recyclables. Stop throwing away those Starbucks cups, we have a home for them now!



- If the Village desires, we will hold one free shred event per year for the residents of the Village of McFarland. This would be held on a weekday in a "non-winter" month at a specified location during the afternoon or early evening. The Village would be responsible for promoting the event and would need to provide staff to aid in the handling of material. Requests for event will need to be made 8 weeks in advance to secure a shred truck and give sufficient time to promote the event to the residents.

- Our quote includes all current landfill fees, taxes and surcharges as of May 1, 2023. Pellitteri Waste Systems will be reimbursed for any additional expenses created by any new or amended laws, statutes, or ordinances that add new or increased environmental taxes or fees or required mandatory collection and/or disposal of refuse or increased rates by the Dane County Landfill or MRF other than the manner described in this proposal.

- The Village of McFarland will give Pellitteri trucks access to any household covered under this contract and will not hold Pellitteri responsible for any damage to roads required to be used for servicing households covered under this contract. The Village of McFarland will secure and provide indemnification to Pellitteri from damage to roadways from normal wear and tear in all private roads, alleys or driveways as well as any abutting landscape. Public streets in the Village are suitable for the Pellitteri's vehicles used in collection of refuse and recyclables. If the Village prohibits the Contractor from operating its collection vehicles on a public street, Pellitteri shall not be required to collect on such street. The Contractor shall not be liable for any liability or claims of liability resulting from the negligence or willful misconduct of the Village, its agents, or employees.

- In the event the Contractor is delayed in or prevented from performing its obligations hereunder, whether in whole or in part, by reason of or as a result of any force majeure, the Contractor shall be excused from performing such obligations during such force majeure. The term force majeure as used herein means acts of public enemies, blockades, wars, insurrections, governmental restraints, whether Federal or State, civil or military, civil disturbances, explosions, labor strikes not involving the Contractor, the inability to obtain necessary materials, including fuel, tires and supplies, and such other causes which are beyond the control of the Contractor.

- We will investigate and respond to any perceived missed collections or incidents within one business day (typically same day) and will provide resolution; our fleet is equipped with GPS & video to help expedite these scenarios. A report of missed collections and incidents will be provided to the Village upon request.

- Additional trash or additional recyclables that will not fit in a full cart can be placed in clear plastic bag(s) next to the proper cart - provided the homeowner has called Pellitteri and prepaid for the additional bag(s). We will accept bags up to 32 gallons in size no heavier than 50 lbs.

- Pricing includes all municipal locations as listed in spreadsheet labeled "McFarland Municipal Contract Extension Locations Included'. Delivery and removal of McFarland Community Festival dumpsters will be provided during normal business hours and charged separately to the Village. Any changes or additions to equipment or increased services above and beyond what is included is subject to additional fees.

General Specifications Cont.

- If a resident has more trash or recycling than will fit inside their cart for each servicing, they may contract directly with Pellitteri for a second cart. The resident will pay Pellitteri directly for any additional carts. Residents may contact the Village or Pellitteri to request a second cart.

- Cart upgrade fees for the Village-owned 95-gallon trash carts, Pellitteri owned 95-gallon trash carts and Pellitteri owned 95-gallon recycling carts will be paid by the resident to Pellitteri on an annual basis. The 2024 cost will be $42.00 per year and an annual escalator will apply.

- Carts need to be placed within 2 feet of the curb, not blocked by any object, and not within four feet of a mailbox, tree, car, another cart or any other object on either side. Carts should not be overloaded; the lids should be completely shut to keep the contents inside.

- Pellitteri will invoice the Village on or about the first day of each month for services rendered during that month. Invoices shall be paid by the last day of the month. Pellitteri will include the number of units and the price per unit on every invoice. The Village will notify Pellitteri of any cart changes. There will be no credit given for seasonal homes.

- All other items within the original agreement remain intact, except those that contradict the current practices and procedures that have been agreed upon between Contractor and the Village. This proposal in its entirety will become part of the extension contract with the Village.

Thank you for a decade long strong partnership, we look forward to continuing our successful partnership with the Village and value your consideration of our extension proposal.

Annual Pricing Options

Pricing per household is indicated below as a monthly cost. The below costs include all current government surcharges/landfill fees as of May 1, 2023. Any new households built will be billed on the invoice following the delivery of new carts.

FEE SCHEDULE – 5YR, 7YR OR 10YR Option:

AUTOMATED MONTHLY COST PER HOUSEHOLD

BASE RATE - 65 GAL TRASH, 65 GAL RECYCLING

Weekly Trash and Weekly Recycling

	5 YR TR	5 YR RC	TOTAL	10 YR TR	10 YR RC	TOTAL
Current 2023	$ 7.65	$ 5.00	$ 12.65	$ 7.65	$ 5.00	$ 12.65
2024	$ 7.90	$ 5.25	$ 13.15	$ 7.55	$ 4.90	$ 12.45
2025	$ 8.15	$ 5.50	$ 13.65	$ 7.75	$ 5.10	$ 12.85
2026	$ 8.40	$ 5.75	$ 14.15	$ 7.95	$ 5.30	$ 13.25
2027	$ 8.65	$ 6.00	$ 14.65	$ 8.15	$ 5.50	$ 13.65
2028	$ 8.90	$ 6.25	$ 15.15	$ 8.35	$ 5.70	$ 14.05
2029				$ 8.55	$ 5.90	$ 14.45
2030				$ 8.75	$ 6.10	$ 14.85
2031				$ 8.95	$ 6.30	$ 15.25
2032				$ 9.15	$ 6.50	$ 15.65
2033				$ 9.35	$ 6.70	$ 16.05

The Village has the option to go from a 5-year term to the 10-year term within the first 18 months of the extension contract. 10-Year pricing will apply for a 7-year term extension as well. No Fuel Surcharge will continue to apply.

Pricing includes, at no additional charge to the Village, Village municipal locations as outlined on page 11. Any extra collections, additions or changes to the size of dumpsters and/or frequency of service are subject to additional fees.

Letter of Credit in place will continue at $50,000. If the current letter of credit is removed, apply a $.05 per home/month reduction in price.

The resident's annual charge for a second trash or recycling cart is $99.00 annually and the resident will be invoiced in advance for this additional service. This cost is subject to annual escalators in subsequent years.

Additional trash or recyclables that will not fit in a full cart can be placed in plastic bag(s) next to the appropriate cart - (clear bags required for recyclables) - provided the homeowner has called Pellitteri and prepaid for the additional bag(s). We will accept bags up to 32 gallons in size no heavier than 50 lbs. Pricing is provided in the attached bulky item price list.

If desired, we can add an E-Waste annual event that will be charged at $.30 per pound + hauling cost, once location is determined. E-waste charge is based on current market pricing which can fluctuate, per pound rate is subject to change after 2023. The E-waste event would be promoted and staffed by the Village.

If desired, we can provide roll-off dumpsters for a community bulk collection facilitated by Public Works, each 30-yard roll-off dumpster would be charged at $75.00 per delivery, $165.00 per haul and $55.00 per ton, an annual escalator of 2% will apply. Dumpster delivery (any services requested) and removal would be provided Monday - Friday during normal working hours. Should the Village desire we can also provide a curbside bulk pickup, up to twice per year (fall and spring availability is limited), this would be charged at $165.00 per truck hour (2 persons per truck) and $55.00 per ton disposal, an annual escalator of 2% will apply. *Please see attached list of items that are accepted for curbside bulk pickup.

Cart recycling- Public Works may cut up carts and place on a pallet (remove all metal and wheels) and free of charge we will provide semi-annual pickup of the carts for recycling. A rebate may be available depending on market rates when applicable.

Pre-Arranged Bulky Item Pricing

Households with Bulky Items must contact Pellitteri Waste Systems prior to pick up and prepay for disposal by check, cash, or credit card. Those large items will be included in the next available scheduled large item pickup. Items must be at the curb or end of driveway on the scheduled pickup day. All large household items must be no more than five (5) feet from the street. Large household items needing special picked up is available weekly.

ITEM	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
White Goods without refrigerants	$54.00	$55.00	$56.00	$57.00	$58.00	$59.00	$60.00	$61.00	$62.00	$63.00
White Goods, with refrigerants	$64.00	$65.00	$66.00	$67.00	$68.00	$69.00	$70.00	$71.00	$72.00	$73.00
Car Tire, without rim	$27.00	$28.00	$29.00	$30.00	$31.00	$32.00	$33.00	$34.00	$35.00	$36.00
Truck Tire, without rim	$32.00	$33.00	$34.00	$35.00	$36.00	$37.00	$38.00	$39.00	$40.00	$41.00
Additional Refuse, per cubic yard	$22.00	$23.00	$24.00	$25.00	$26.00	$27.00	$28.00	$29.00	$30.00	$31.00
Additional 30-Gallon Bag Refuse/Recycling	$3.06	$3.12	$3.18	$3.25	$3.32	$3.39	$3.46	$3.53	$3.60	$3.70
Construction and Demolition Waste, per cubic yard	$30.00	$31.00	$32.00	$33.00	$34.00	$35.00	$36.00	$37.00	$38.00	$39.00
Furniture, fixtures, other	$40.00	$41.00	$42.00	$43.00	$44.00	$45.00	$46.00	$47.00	$48.00	$49.00
Electronics, Computers	$51.00	$52.00	$53.00	$54.00	$55.00	$56.00	$57.00	$58.00	$59.00	$60.00
Cart swap out/delivery fee	$45.00	$45.00	$45.00	$48.00	$48.00	$48.00	$48.00	$48.00	$48.00	$48.00
Annual fee for additional trash and/or recycling cart	$99.00	$99.00	$99.00	$105.00	$105.00	$105.00	$105.00	$105.00	$105.00	$105.00

McFarland Municipal Contract Extension Locations Included

Village of McFarland Included Services				
	Service Address	Service Type	Trash	Recycling
Municipal Center	5915 Milwaukee Street	F/L	(2) 2yd trash serviced weekly	(2) 2yd recycling serviced weekly
McFarland Public Works Facility	5115 Terminal Drive	F/L	(1) 2yd trash weekly service	(1) 4yd weekly service
McFarland Public Works Facility	5115 Terminal Drive	F/L	(1) 4yd trash weekly service	
McFarland Public Library	5920 Milwaukee Street	F/L	(1) 2yd trash weekly service	(1) 2yd recycling weekly
McFarland Public Library	5920 Milwaukee Street	Resi Carts	(1) 96g TR weekly	
McFarland Youth Center	5114 Farwell Street	Resi Carts	(2) 65gal TR Weekly	(1) 65gal SS Weekly
Brandt Park	4601 Siggelkow Rd	F/L	(1) 2yd trash weekly service	(1) 2yd recycling weekly
Lewis Park	5012 Highland Drive	F/L	(1) 2yd trash weekly service	(1) 2yd recycling weekly
McDaniel Park	4800 McDaniel Lane	Resi Carts	(6) 65gal TR	(6) 65gal RC
McDaniel Park	4800 McDaniel Lane	F/L	(1) 4yd trash weekly service	(1) 2yd recycling weekly service
Downtown New Curbside Bins	Downtown McFarland	Resi Village Owned Carts	(8) 95g 1x/week (option for 2x/wk at an additional cost to Village***)	
New Public Safety Building	Needed	F/L	(2) 2yd trash serviced weekly	(2) 2yd recycling serviced weekly
New Community Park 2024	3234 Cty Hwy AB	F/L	(1) 2yd trash weekly service	(1) 2yd recycling weekly
William McFarland/McFarland Soccer Park	4802 Marsh Road	Resi Carts	(7) 65g TR weekly	(7) 65g RC weekly
William McFarland/McFarland Soccer Park	4802 Marsh Road	F/L	(2) 2yd trash weekly service	
McFarland High School	5301 Farwell Street	Resi Carts	(1) 95g TR weekly	
Brandt Park	4601 Siggelkow Rd	Resi Carts	(6) 65g TR weekly	(4) 65g RC & (2) 95g RC weekly
Valley Totlot	5100 Broadhead Street	Resi Carts	(1) 35g TR weekly	
Autumn Grove	5207 Falling Leaves Lane	Resi Carts	(1) 65g TR weekly	(1) 65g RC weekly
Juniper Ridge	5107 Holscher Road	Resi Carts	(1) 65g TR weekly	(1) 65g RC weekly
Cedar Ridge Park	5303 Wild Cherry Lane	Resi Carts	(1) 35g TR weekly	
Highland Oaks	5945 Osborn Dr	Resi Carts	(1) 65g TR weekly	(1) 65g RC weekly
(Arnold) Larson Park	6002 Exchange Street	Resi Carts	(3) 65g TR weekly	(3) 65g RC weekly
Lewis Park	5012 Highland Drive	Resi Carts	(2) 65g TR weekly	(2) 65g RC weekly
Egner Park	5703 Bird Song Court	Resi Carts	(1) 35g TR & (1) 65g TR weekly	(1) 35g RC & (1) 65g RC weekly
Jaeger Park	6402 Jaeger Road	Resi Carts	(1) 35g TR weekly	(1) 35g RC weekly
(Urso) McFarland Dog Park	6300 Elvehjem Road	Resi Carts	(2) 35g TR weekly	(1) 35g RC weekly
Woodland Estates	5601 Glenway St	Resi Carts	(1) 65g TR weekly	(1) 65g RC weekly
Orchard Hill Park	2860 Hidden Farm Rd	Resi Carts	(1) 65g TR weekly	(1) 65g RC weekly
Annual Temporary Dumpster Use Option	(4) 8yd Lidded Dumpsters for Temporary Use/ Per Year (1 total load each use- no routed service)			
Notes:				

*All park's carts will be placed curbside for automatic collection.

**McFarland Community Festival will be paid separately by the City at the following rates: 20yd trash dumpster (one load) $581.00, 8yd trash dumpster (one load) $410.00, (2) 2yd recycling dumpsters (one load each) $360.00 each, 50 Event Boxes with 50 Liners $850.00, a 2% annual escalator will apply.

*** To send a separate truck to provide an additional trash collection (2x/wk total service) for the 8 downtown trash carts add $.05/home/month.

Village of McFarland

For questions regarding your service, contact us below or call 608-257-4285.

Contact Us

We are excited to be servicing the Village of McFarland residents with our automated curbside garbage and recycling pick-up service!

Important Documents & Links

Refuse & Recycling Collection Calendar

2023 Tuesday Calendar

2023 Wednesday Calendar

Additional Information

Recycle Info

Bulky Items

Hazardous Material

Village of McFarland Website

New Resident Info

FAQs for the Village of McFarland

- What are my options if I find that my carts are not the right size?
- When should I put the cart(s) out?
- Where should I place my cart(s)?
- What can I put in the trash and recycling carts for collection?
- What should I do if I have more trash and/or recycling than what fits in the cart?
- I frequently have more trash than what fits in the largest cart. Can I order an additional cart?
- I'm cleaning out my garage/basement/etc. and I have a lot of trash to dispose of. Where can I dispose of it?
- How will large items be collected such as furniture and appliances?
- If I move, do I take the carts with me?
- What if my cart gets damaged or stolen?

Pellitteri WASTE SYSTEMS

A TRADITION of SERVICE Since 1939

Residential

COLLECTION INFORMATION

RECYCLING *Information – All recyclables should be placed in your recycling cart*

EXPANDED *Paper* RECYCLING

- Cardboard (empty)
- Catalogs, magazines & phone books
- Cereal & cracker boxes (empty)
- Computer & office paper
- Envelopes & junk mail
- Holiday gift wrapping paper (no foils)
- Newspapers
- Paper cups (no plastic lids or straws)
- Paper egg cartons
- Paper grocery bags
- Paper milk and juice cartons or boxes
- Pizza boxes (no food or grease)
- Shredded paper (place in clear or transparent plastic bag and tie shut; a full bag should be the size of a basketball)

RECYCLABLE *Plastic & Glass*

- All plastic bottles (no motor oils or gasoline)
- Plastic containers/cups #1-7
- Glass bottles & jars (clear, blue, brown or green translucent glass)

RECYCLABLE *Metal*

- Aerosol cans (empty)
- Aluminum cans & aluminum pie plates
- Metal pots & pans
- Small metal appliances (toasters, blenders, etc.) – nothing larger than a basketball
- Small metal plumbing fixtures, faucets, valves
- Tin & steel cans

NON-RECYCLABLE *Items:*

- Batteries
- Brake rotors / drums
- Construction waste
- Electronics
- Frozen food or microwave dinner plates
- Glassware & ceramics
- Metal items heavier than 10 pounds
- Mirrors & windows
- Motor oil & gasoline containers
- Plastic film, wrap & Styrofoam
- Propane tanks
- Recyclable containers containing liquids or food
- Misc.: Carpet, clothing, diapers, fishing line, food, hoses, ropes & shoes

RECYCLING *Tips*

- Containers containing food or liquids, construction waste or electronics CANNOT be placed in the recycling cart.
- Should you choose to bag recyclables you place into the cart, please use clear or transparent bags and leave open – do not tie or seal. Clear bags can be purchased at most grocery and hardware stores.
- Do not flatten or crush plastic or metal items. Do not place smaller items inside larger containers. All items should be loose and empty. Remove all food waste, plastic, Styrofoam & packing peanuts.
- Flatten cardboard boxes and cereal boxes to make room in the recycling cart. The lid on your cart should shut.
- Your recycling cart will not be picked up if it contains trash, yard waste or prohibited items, or if overloaded.
- Check out www.pellitteri.com for more than twenty 1-minute recycling tip videos and a 7-minute video showing what happens to your recyclables. Call (608) 257-4285 if you have any remaining questions.
- Coming soon: A searchable recycling database, sign up for service reminders and notifications, a mobile app, and more!

1022

*Bulk Collection- Annual or Semi-Annual Cleanup Option

Acceptable Items

- Basketball hoops (only if dismantled to less than 5ft sections, backboards separate, bases separate without sand or water in them, no concrete)
- Bed frames
- Box springs (only if placed **in a sealed, waterproof storage bag**)
- Charcoal & gas grills (no propane tanks and no ashes/charcoal)
- Dry carpet & padding (rolled & tied for one person to handle)
- Furniture items - chairs, couches, headboards, footboards, lamps, recliners, sofas, tables, etc.
- Household trash items - clothing, dishes, toys (no batteries), etc.
- Mattresses (only if placed **in a sealed, waterproof storage bag**)
- Small fish tanks or aquariums (less than 40 gallons, empty, no fluorescent lights)
- Small lawn mowers & snow blowers (gas & oil must be removed)
- Swing sets (must be dismantled with nails/screws pounded in for safety)

NOT Acceptable Items*

- 55-gallon drums
- Appliances (air conditioners, dehumidifiers, dishwashers, dryers, freezers, microwaves, refrigerators, stoves/ovens, washers, water heaters & water softeners, etc.)
- Batteries (including lead-acid & lithium-ion)
- Building, demolition, & roofing materials, including windows
- Cardboard (please recycle with your weekly cart service)
- Computers & computer monitors
- Concrete, brick, dirt pieces, etc.
- Oil or propane tanks
- Pesticides, chemicals, paint, thinners, etc.
- Pianos
- Recyclables that normally go in your cart (see list)
- Televisions & electronics
- Vehicle engine blocks & vehicle parts, including tires
- Yard waste & brush

* Some not acceptable items can be pre-arranged for pick-up with Pellitteri Waste Systems for a fee. Please call (608) 257-4285 to make arrangements.

Village of McFarland Resident & Staff Compliments to Pellitteri Waste Systems Drivers & Staff (not all inclusive)

8/8/19 8:16 AM	COMPLIMENT	MCFARLAND	RESIDENT CALLED IN ON 08/07/19 TO GIVE KUDDOS TO HIS TRASH DRIVER TODAY. HE WANTED US TO KNOW HE WAS SUCH A NICE FELLA, HE WANTED TO PASS ALONG RECONITION AND THANKS. HE SAID THAT HE HAD SOME EXTRA TRASH AND THE DRIVER GOT OUT THE TRUCK TO HELP ASSIST HIM WITH THE EXTRA LOADING. HE THINKS IT WAS REALLY AWESOME THAT HE DID THIS!
10/15/19 2:20 PM	COMPLIMENT	MCFARLAND	BEATRICE CALLED SEEING IF I COULD PUT A REMINDER NOTE IN FOR THE TRASH DRIVER FOR HER HANDICAPPED STOP, HE MISSED HER LAST WEEK! SHE WOULD ALSO LIKE TO THANK THE DRIVERS, COMPANY, AND MYSELF (MY TEAM) FOR ALL OF THE HARD WORK WE DO. THE HANDICAPPED SERVICE IS A WONDERFUL THING WE DO. I PUT A REMINDER TICKET IN FOR TRASH DRIVER FOR TOMORROW.
11/20/19 12:39 PM	COMPLIMENT	MCFARLAND	VIA INFO@: "GOOD MORNING, I AM WRITING THIS E MAIL TO EXPRESS MY THANKS TO ONE OF YOUR DRIVERS THAT STOPPED HIS TRUCK TO HELP ME UP AFTER FALLING OFF MY LADDER. I MISSED STEPPED AND SHOULD HAVE WENT DOWN TO THE LAST STEP. BUT STEPPED OFF ONE STEP TOO SOON. I AM SORRY I DIDN'T CATCH HIS NAME, BUT HE IS THE DRIVER THAT WAS PICKING UP THE RECYCLING CONTAINERS AROUND 11:30 AM IN THE 5600 BLOCK OF SCOTT ST IN MCFARLAND. THANKS AGAIN TO THE DRIVER. MARV *********
6/17/20 3:04 PM	COMPLIMENT	MCFARLAND	ADMIN FROM THE VILLAGE SAID THAT THE RC DRIVER IS SO GREAT - HE ALWAYS WAVES AND BEEPS HIS HORN FOR THE LITTLE KIDS! THEY JUST LOVE IT.
7/14/20 8:37 AM	COMPLIMENT	MCFARLAND	BEATRICE CALLED ASKING IF WE COULD PLACE A REMINDER FOR THE TRASH DRIVER TO COME UP TO HER GARAGE TO GRAB HER BIN. SHE ALSO SAID THAT SHE IS APPRECIATIVE OF THE SERVICE AND WOULD LIKE FOR OUR OPS AND CS DEPARTMENTS TO KNOW. PLACING A REMINDER TICKET FOR THE TRASH DIRVER
7/30/20 3:38 PM	COMPLIMENT	MCFARLAND	RESIDENT KARA SAID MAIA WAS GREAT WHEN SHE CALLED YESTERDAY!!
2/12/21 1:58 PM	COMPLIMENT	MCFARLAND	I TALKED TO CHARLES. HE SAID PAIGE'S EXPLANATION TO HIS WIFE MADE A LOT OF SENSE. ALSO TOLD HIM IF HE WANTS TO BAG THE MATERIAL, HE CAN DO THAT, JUST USE THE CLEAR BAGS. HE SAID HE'D DO THAT IN THE WINTER TIME TO HELP PREVENT STUFF FROM STICKING. HE SAID HE REALIZES NOW THERE'S NOT MUCH THE DRIVER CAN DO ABOUT IT AND HE REALLY APPRECIATED THE SUGGESTIONS AND THE FOLLOW UP!

Village of McFarland Resident & Staff Compliments to Pellitteri Waste Systems Drivers & Staff Continued (not all inclusive)

8/6/21 8:19 AM	COMPLIMENT	MCFARLAND	HARLAN CALLED TO ORDER A DUMPSTER FOR HIS MOTHER @ **** JOYLYNNE DR IN MADISON. HE STARTED THE CONVERSATION BY SAYING WE DO A FANTASTIC JOB IN MCFARLAND WITH THE COLLECTION AND ARE VERY PLEASED WITH OUR SERVICES. HE SAID THERE WAS NO DOUBT IN HIS MIND WHO HE WAS GOING TO CALL FOR THE DUMPSTER. HE KEPT SAYING HOW NICE I WAS AND HELPFUL I WAS BEING AND THAT HE APPRECIATED ALL OF THE HELP. I THANKED HIM SEVERAL TIMES. AND WE HAD A GOOD CHAT BACK AND FORTH ABOUT THE DUMPSTER/ OUR SERVICES IN GENERAL AND JUST GENERAL CONVO.
1/21/22 1:10 PM	COMPLIMENT	MCFARLAND	MOLLY ANSON MAILED IN A THANK YOU LETTER - DEAR SANITATION TEAM, THANK YOU FOR TAKING OUR GARBAGE AND RECYCLING. YOUR JOB IS SO IMPORTANT TO OUR COMMUNITY. YOU HELP KEEP IT CLEAN. STAY SAFE. THANKS AGAIN.
3/28/22 1:27 PM	COMPLIMENT	MCFARLAND	BOB REPLIED TO MY EMAIL, "OUR RECYCLING WAS PICKED UP THIS MORNING AT 11:00AM. THANKS AGAIN FOR THE GREAT SERVICE!"
4/8/22 12:48 PM	COMPLIMENT	MCFARLAND	RICH CALLED BACK AND SAID OUR DRIVER WAS SUPER NICE. WAS HAPPY TO SEE WE WERE ABLE TO COME BACK AND REMEDY TO COLLECTION SERVICE ISSUE FOR THE DAY BEFORE. SAID THE DRIVER WAS SUPER FRIENDLY AND HELPFUL AND THE CHATTED FOR A MIN ABOUT POSSIBLE ISSUES/SOLUTIONS GOING FORWARD. I THANKED HIM FOR THE KIND WORDS AND LET HIM KNOW I WOULD GET IT PASSED OVER TO THE DRIVER.
7/1/22 3:02 PM	COMPLIMENT	MCFARLAND	MRS. PETERSON CALLED TO SAY THANK YOU FOR COMING BACK! THANKS TO BOTH THE COMPANY AND THE DRIVERS FOR THEIR HARD WORK.
9/19/22 7:22 AM	COMPLIMENT	MCFARLAND	DMP SPOKE TO STEPHANIE ABOUT THE PARADE REGISTRATION AND SHE COMMENTED THAT “YOUR CUSTOMER SERVICE PEOPLE DO A GREAT JOB, MARGAUX, PAIGE AND CHRISTINE ARE PLEASANT AND KIND.
12/28/22 4:32 PM	COMPLIMENT	MCFARLAND	THE VILLAGE IS GOING TO PAY FOR US TO GO BACK FOR BOTH ON FRIDAY - I CALLED AND TALKED TO RICHARD AND LET HIM KNOW. HE WAS VERY HAPPY TO HEAR AND SAID THAT NORMALLY THERE ARE NO ISSUES AND HE IS IMPRESSED BY THE VILLAGE AND US ON WORKING TOGETHER TO GET THE SITUATION TAKEN CARE OF. HE SAID HE WILL HAVE THE CARTS OUT THUR NIGHT FOR SERVICE.

<u>Kipp Street Station Tours:</u> Hosting groups interested in seeing how we process recycling at our state-of-the-art recycling facility.

- Students from the Village of McFarland

<u>Donations & Community Support</u>

- Thanksgiving Back - Food Pantry Donations
- McFarland Police Department
- Shop with a Cop
- Annual Officer Ryan Copeland Memorial K-9 Golf Outing Sponsorships
- McFarland Chamber Christmas in the Village
- McFarland High School PRIDE program
- McFarland Education Foundation- Silent Auction
- McFarland Chamber of Commerce- Annual Dinner Auction
- McFarland Fire Department Street Dance
- McFarland Education Foundation Winter Bash

VILLAGE OF
McFarland

2022 Outstanding Achievement in Education Award

AROW
ASSOCIATED RECYCLERS OF WISCONSIN
Leaders in Resource Renewal

A non-profit association that provides statewide proactive leadership on waste reduction and recycling through education, advocacy, collaboration, programs and services.

For Immediate Release

Media Contact:
Karin Sieg, Executive Director
Associated Recyclers of Wisconsin
execdirector@arow-online.org
(715) 343-0722

Betsy Powers, Vice President
Associated Recyclers of Wisconsin
bpowers@scsengineers.com
(608) 333-5408

AROW Honors Recycling and Waste Reduction Efforts Throughout Wisconsin at Annual Awards Ceremony

Stevens Point, WI (March 6, 2023) – The Associated Recyclers of Wisconsin (AROW) proudly held their annual awards ceremony last week at the 2023 Wisconsin Integrated Resource Management Conference (www.wirmc.org). The ceremony, held on February 23rd, recognized individuals and organizations for outstanding work in the field of recycling and waste reduction.

This year AROW gave out a total of three awards.

"AROW always looks forward to honoring those working hard in our industry. This year's recipients clearly demonstrate the strength of recycling in Wisconsin with achievements in public and private industry as well as education," said Betsy Powers, AROW's Vice President. "AROW is the voice for recycling and waste reduction in Wisconsin and we are proud to recognize these individuals and groups."

The prestigious **Christy Dixon Recycler of th**
Development Board Director formerly the W
Waukesha, WI. This recognition is given to a
standards. Analiese has been a leader in the

Some of Analiese's highlights over the years
includes a dividend payment to partner com
contributor to the development of the Wauk
and identified a continuous improvement op
new recycling app specifically designed to ta

Despite being incredibly busy with her 'day j
a leadership capacity as Committee Chair, Vi

The **Outstanding Achievement in Waste Re**
Waukesha County Recycling. This recognitio
program.

The Waukesha County Recycling team create
partnership that is built to share the benefits

Associated Recyclers of Wiscons
Phone: (715) 343-0722 •

The **Outstanding Achievement in Education Award** was awarded to Pellitteri Waste Systems of Madison, WI. This award is given to an individual or group from the public, private, or non-profit sector that has excelled in solid waste or recycling environmental education.

Pellitteri is passionate about keeping Wisconsin's recycling program strong and producing quality material. Pellitteri has accomplished this through their major education focus of educating customers and south central Wisconsin through 24 video shorts on recycling right topics like propane tanks, batteries, electronics, food contamination, etc.; producing Material Recovery Facility operation videos so residents can see first hand how materials get sorted at their facility; paid social media posts and ads; and calendars, cart information, new resident information, recycling information, FAQs and more for 38 municipalities and 44 private homeowner associations. Their commitment to a strong recycling program throughout Wisconsin is evident in their willingness to serve on industry groups and associations such as the Council on Recycling, National Waste and Recycling Association- WI Chapter, and the WI DNR Waste and Materials Management Study Group.

AROW is a membership-based organization, serving the recycling and waste reduction interests of citizens, organizations, municipalities and businesses across the state. For those who support recycling and wish to see more waste diverted into productive use, consider joining the cause by becoming an AROW member.

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About the Associated Recyclers of Wisconsin (AROW)
Founded in 1990, AROW is an association representing Wisconsin's recycling, waste reduction and sustainability professionals. The organization provides leadership through education, advocacy, and collaboration and promotes effective, efficient and sustainable material recovery initiatives. For details on AROW, its positions and programs visit www.arow-online.org.

STRATEGIC MATERIALS

17220 Katy Freeway, Suite 150, Houston, Texas 77094
STRATEGICMATERIALS.COM

August 06, 2019

Dear Pellitteri Waste System Customers and/or Potential Customers,

Strategic Materials Inc. is the largest glass recycling company in the U.S. We specialize in turning used glass into clean, ready to use, glass cullet. The recycling plant in Delavan manufactures glass cullet which is used to make new glass bottles. We are currently the only organization in Wisconsin that is taking mixed color glass from single stream recycling plants for the purpose of reuse and recycling. Most glass that doesn't come to us is being sent to a landfill --- never to be used again even though it has an unlimited life cycle.

Strategic Material's Delavan, Wisconsin, location recognizes Pellitteri Waste Systems for producing the cleanest, three-mix glass that comes from a single stream MRF in Wisconsin. Having clean material is essential to our operations by minimizing waste and allows us to recycle the highest percentage of material. We appreciate Pellitteri's dedication to providing quality materials to our organization. Customers of Pellitteri Waste Systems can feel confident that their mixed glass recycling efforts are resulting in the highest quality and quantity glass reuse available.

Sincerely,

Daniel VanKorn
Regional Sourcing Manager - Midwest
c. 281-755-7132 | dvankorn@strategicmaterials.com
SMI Delavan | 1849 Hobbs Drive Delavan, WI 53115

Carton Council of North America
Midwest Office -7325 Edgehill Rd , Greendale WI 53129

To whom it may concern,

My name is Jim Birmingham, Midwest director for The North American Carton Council. Pellitteri Waste and Recycling of Madison has always been a leader in new initiatives to add commodities to the recycling container. In 2015 when presented with the opportunity to add carton recycling to residential and school containers Pellitteri was one of the first MRF in Wisconsin to add them even though it meant disrupting and doing several changes to their processing line .

I have personally known this family run business for 25 years . They are one of the top companies in the industry .

Sincerely

Jim Birmingham

Midwest Director ,Carton Council

CARTON COUNCIL
recyclecartons.com
cartonopportunities.org

A TRADITION of SERVICE Since 1939

Pellitteri WASTE SYSTEMS

DEPARTMENT OF PUBLIC WORKS
DIRECTOR / CITY ENGINEER

CITY OF MIDDLETON
7426 HUBBARD AVENUE
MIDDLETON, WI 53562-3118

PH 608.821.8381 FAX 608.827.1080
E-MAIL: sstauske@cityofmiddleton.us
WEB: www.CityofMiddleton.us

March 29, 2021

Joe Spair, Municipal Account Rep.
Pellitteri Waste Systems

Re: Testimonial Letter

Joe,

I'm writing this letter of recommendation on behalf of the residential and commercial property owners being served by Pellitteri Waste Systems in the City of Middleton.

The City of Middleton made a switch to automated collection in 2010, and while there were some initial bumps in the road to gaining public acceptance of the change from manual collection of unlimited volume, we found the automated system to be efficient, easy to use, and economical. After evaluating proposals from several companies, we chose to enter into a multiple year contract with Pellitteri Waste Systems. Implementation of the automated collection system went much smoother than anticipated thanks in large part to exceptional cooperation from Pellitteri.

In addition to getting the new system up and running, Pellitteri has shown over the past decade their commitment to customer satisfaction, both with our municipal employees and with our residential and commercial users. Inquiries and complaints (of which there have been very few) have consistently been addressed by Pellitteri's outstanding customer service representatives, with personal involvement of sales and management personnel as appropriate. Pellitteri provides invoicing and customer database updates that work with our format needs, and provides thorough reporting of refuse and recyclable materials collected to help us monitor progress toward our sustainability goals.

In 2014, Pellitteri proposed a contract amendment that resulted in more frequent collection of recyclable materials (weekly instead of bi-weekly), and also reduced costs. Pellitteri was instrumental in past citywide recycling / paper shredding events, and when we outgrew that system Pellitteri helped us plan for the 2015 construction of our permanent recycling drop-off facility. Our municipal account representative has also been very helpful in providing advice to our Sustainability Committee and helped us shape ordinances related to solid waste issues.

I'm very pleased with Pellitteri's service, and I highly recommend them.

Sincerely,

Shawn Stauske

Shawn Stauske
Dir. Public Works / City Engineer

PELLITTERI WASTE SYSTEMS LAUDED BY CITY OF FITCHBURG FOR ROLE IN RECYCLING AWARD

FOR IMMEDIATE RELEASE

February 12, 2014

MADISON, WI – Pellitteri Waste Systems was recently recognized and thanked by the city of Fitchburg for services provided to Fitchburg's Organics Collection Pilot program. The program, which ran from April 2012 through December 2013, was honored with a Excellence in Recycling Award from the Wisconsin Department of Natural Resources late last year. In accepting the award, the city thanked Pellitteri Waste Systems for the company's role in making the pilot program possible.

"The City of Fitchburg would like to extend our sincere appreciation for Pellitteri's support during the Household Organics Collection Pilot," Paul Woodard, Fitchburg's Director of Public Works/City Engineer wrote in a January 21 letter to Pellitteri Waste Systems. "We could have never achieved this great accomplishment without your help."

"This is a great recognition. We are pleased to have played a role in the success of the Organics Collection Pilot Program," says Pellitteri Waste System VP of Finance David Pellitteri.

The city of Fitchburg reports that the pilot program engaged more than 320 of the 400 target households and "provided a wealth of logistical information and will contribute to the success of any future city-wide household organics collection program."

This article can be found at https://www.pellitteri.com/blogs/news/pellitteri-waste-systems-lauded-by-city-of-fitchburg-for-role-in-recycling-award

Pellitteri WASTE SYSTEMS

A TRADITION of SERVICE Since 1939

Town of New Glarus

Hi Joe,

The Town of New Glarus would like to thank Pellitteri Waste Systems for the smooth transition to their collection services. We've now been with Pellitteri for 6 months, & there's been a noticeable decline in the amount of weekly complaints & concerns from residents as opposed to our previous service. And when we do receive a concern, we have been more than happy with the attentive responses from the Customer Service department.

Thank you for all of your assistance in this process & your continued high quality service provided to the residents of our town!

Jesse Wahl
She/her
Clerk-Treasurer
Town of New Glarus
608-527-2390

From: Claudia Guy <Claudia.Guy@fitchburgwi.gov>
Sent: Monday, September 28, 2020 12:49 PM
To: Tim Bolhuis <Timb@pellitteri.com>
Cc: Bill Balke <Bill.Balke@fitchburgwi.gov>
Subject: RE: Fitchburg Video

Hope all is well with you, Tim.

As the Environmental Engineer for the City of Fitchburg, Pellitteri's customer service team continues to exceed my expectations. They provide fast, same-day response to resident complaints, and really go the extra mile to make sure residents are taken care of in a compassionate, fair, and timely manner.

We especially love Grace!

Thank you,
Claudia

Claudia Guy, P.E.
Environmental Engineer
City of Fitchburg, WI
Desk: 608-270-4262
Claudia.Guy@fitchburgwi.gov

A full video testimonial on the City of Fitchburg's 2020 RFP results regarding their decision to continue their partnership with Pellitteri Waste Systems can be found at **https://www.youtube.com/watch?v=VSdtRfAV464**

VILLAGE OF OREGON Wisconsin

INCORPORATED 1883

Jeffrey S. Rau, P.E. Director of Public Works

MEMO

TO: Village Board & Mike Gracz, Village Administrator

FROM: Jeff Rau, DPW

DATE: August 31, 2020

RE: Pellitteri Waste Systems – 10 Year Contract Extension Proposal

Pellitteri has been serving the Village of Oregon since 2007 with curbside refuse & recycle pickup. Since 2007, the Village has been serviced with weekly refuse pickup and every other week pickup of recyclable items. Pellitteri has negotiated contract extensions in 2012 and 2017. The current contract with Pellitteri runs through 2022. See the attachment following this memo for the current contract pricing schedule.

We have been very pleased with Pellitteri and the service that they have provided for our residents. It is never a perfect system; however Pellitteri has been responsive to any concerns or complaints. We really do receive very few complaints on refuse & recycling which is a good testimony to the work they are doing.

The Village has experienced significant growth and Pellitteri is also seeing a significant increase in recyclables including a very large increase in cardboard products. This is likely attributed to the large increase in on-line retail and free shipping offered by many during COVID. I can confirm that one of the more common requests we receive is somewhere to recycle cardboard as it can fill up the recycle bin quickly.

Village Hall • 117 Spring Street • Oregon, Wisconsin 53575-1494
Telephone: (608) 835-6290 • Fax: (608) 835-6503
jrau@vil.oregon.wi.us

Pellitteri WASTE SYSTEMS

A TRADITION of SERVICE Since 1939

BELLEVILLE, WI

Small community...Big heart

Good morning Joe,

Nice to meet you. I would like to let you know that out of the communities I have worked in, dealing with your staff has been one of my best experiences.
Olga and Grace are always pleasant, and nice to work with. 2020 was a difficult year, but your staff handled it well.

Thank you,

Angie Runde

Village of Belleville
Deputy Clerk/Treasurer
PO Box 79
Belleville, WI 53508
arunde@villageofbelleville.com
608-424-3341 x. 105

Joe Spair

Subject: RE: Contract Options

Hi Joe,
The motion to extend the contract with Pellitteri for another 5 years, was really a no-brainer.
The Village Board passed the motion unanimously with flying colors after looking at the rates, there was barely any discussion.
Everyone is super happy with the collection service.
I am looking forward to a continued great relationship with all of you.
Thanks Joe. Stay well.

Teresa

Teresa Hughey Groves
Village of Dane
Clerk Treasurer
102 W. Main St
Dane, WI 53529
608-849-5422
www.villageofdane.org

Featured in Greater Madison
In Business March 17, 2022

IB In Business Greater Madison

Pellitteri chosen for curbside waste and recycling collection

March 17, 2022 by Site Staff

Pellitteri Waste Systems has been chosen for the trash and recycling contracts for the city of Verona, townships of Burke, Middleton, and Springfield, and the villages of Maple Bluff and Fall River. Pellitteri now services 35 local communities and more than 61,000 homes weekly. Pellitteri sorts and processes items for recycling that are not currently required by state law including:

- Hot and cold paper cups;
- Paper milk and juice cartons;
- Metal pots and pans;
- Shredded paper properly prepared in clear plastic bags;
- Small metal appliances like toasters and blenders;
- Small metal plumbing fixtures, faucets, valves; and
- Empty aerosol cans.

Your trusted waste and recycling partner

Pellitteri Waste Systems, Inc. has had NO complaints on BBB.org in the last 12 months. That's proof to your customers that you are running a trustworthy business.

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Public Works**

CONTACT: **Lee Igl, Public Works Director**

AGENDA ITEM: **Discussion and action regarding the 2023 Crackfill and Chipseal proposal for street maintenance.**

PREVIOUS ACTION:
None.

ISSUE SUMMARY:
Annually the Village conducts cracksealing and chipseal work in order to maintain and extend the life of our streets. This type of work is common practice in municipalities.

Cracksealing is the practice of routing out or opening up a crack in the street and then filling it with a rubberized asphalt type of material to seal up the crack. This helps in keeping water out of the crack along with the asphalt and base material, extending the life of our streets.

Chip sealing is performed after the crack sealing process. Chip sealing consists of sweeping/cleaning off the street, laying down a tar type material with a fine stone material applied directly behind the tar. The chips are then rolled into the tar and in a few days the excess material is swept up and hauled away.

Enclosed in your packet is a proposal from Fahrner Asphalt Sealers for the 2023 work to be conducted on identified streets. Funds for this work have been allocated in the 2023 budget. If additional budgeted street maintenance funding is available after other maintenance is completed, staff would like to add additional streets for crack filling and chip sealing. The current proposed streets are proposed for $73,704. Staff request we are allowed to maximize our street maintenance budget to treat the greatest number of streets. Total street maintenance would not exceed the budgeted $200,000.

Fahrner Asphalt, the proposal provider, has been in business since 1979 and has worked in the village in the past and we have been very pleased with their work. They are a reputable and well respected company.

The Public Works & Utilities Committee will review the proposal at their June 26, 2023 meeting. Staff will provide an update regarding the action taken by the committee at this meeting.

FINANCIAL/BUDGET IMPACT:
The funds for this work are included in the Capital Projects fund account 400-57310-820-101.

The total amount in the 2023 budget is $200,000.

VILLAGE PLAN REFERENCE:
None.

ORDINANCE REFERENCE:
None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Recommended Motion:

Motion, second to recommend approval regarding a proposal from Fahrner Asphalt for 2023 Chipseal and Crackfiling, with total street maintenance expenses not to exceed $200,000.

ATTACHMENTS:
1. 2023 Road Work Proposal
2. 2023 Road Maintenance Breakdown

PROPOSAL / CONTRACT

Job. No. _____ **Date:** June 19, 2023

PLOVER,WI 54467
2800 Mecca Drive
Ph.: 715.341.2868
Fax: 715.341.1054

WAUNAKEE, WI 53597
316 Raemisch Road
Ph.: 608.849.6466
Fax: 608.849.6470

KAUKAUNA, WI 54130
860 Eastline Road
Ph.: 920.759.1008
Fax: 920.759.1019

EAU CLAIRE, WI 54703
6615 U.S. Hwy 12 W
Ph.: 715.874.6070
Fax: 715.874.6717

FAHRNER asphalt sealers llc
Pavement Maintenance Contractors
EEO/AA Employer
CORPORATE OFFICE: 1.800.332.3360

FREDERIC, WI 54837
3468 115th Street
Ph.: 715.653.2535
Fax: 715.653.2553

SAGINAW, MI 48601
2224 Veterans Memorial Pkwy
Ph.: 989.752.9200
Fax: 989.752.9205

DUBUQUE, IA 52002
7680 Commerce Park
Section C
Ph.: 563.556.6231
Fax: 563.588.1240

OAKDALE, MN 55128
7500 Hudson Blvd., Ste. 305
Ph.: 651.340.6212
Fax: 651.340.6221

Contact Name: Lee Igl **Contract Price** $73,704.00

PURCHASER: VILLAGE OF MCFARLAND
ADDRESS: 5115 TERMINAL DR
MC FARLAND, WI 53558

TELEPHONE: (608) 838-7287
DESCRIPTION OF PROPERTY:
2023 Street Maintenance
5155 Terminal Dr.
McFarland, WI 53558

1. FAHRNER Asphalt Sealers, L.L.C. (CONTRACTOR) and PURCHASER agree that, CONTRACTOR shall furnish the labor and materials to complete certain construction in accordance with the following specifications:

   Repair asphalt areas using Infrared Seamless Patching System. Approximately (7) heats. List provided by Village DPW.

   Rout out cracks to a 3/4 x 3/4 ratio width versus depth. Blow out and clean cracks with compressed air and heat lance. Seal cracks with a rubberized asphalt crack sealant. This material exceeds Fed Spec ASTM D6690 Type II. Crackfilling does not include alligatored areas.

   Thoroughly clean the existing surface with a self propelled broom. Apply 170 degree emulsified asphalt by full-width spray distributor. Apply cover aggregate and spread uniformly over surface with full-width self propelled chip spreader. Roll with pneumatic-tired roller. Sweep roads post application.

   Emulsion - CRS2-P Polymer Modified
   Aggregate - FA2 Fractured Granite
   Sweeping - Included

   **See Attached List of Roads and Specifications

This proposal may be withdrawn if not accepted and received by CONTRACTOR within 15 days of the date above and/or at any time before performance of the work hereunder upon CONTRACTOR'S determination that the PURCHASER is not creditworthy.

2. If proposal is accepted please sign, retain one copy and forward a copy to our office.
3. The undersigned ("PURCHASER") agrees to pay CONTRACTOR the total price of $73,704.00 and/or the unit prices specified above for the labor and materials specified above which payment shall be due upon completion of each stage of work. PURCHASER acknowledges that the specifications, conditions and price quotes specified above are satisfactory and hereby accepted.

Acceptance of this Proposal includes acceptance of all the terms and conditions on back.

CONTRACTOR:
Fahrner Asphalt Sealers, LLC:608-280-1452
mike.jenquin@fahrnerasphalt.com

Mike Jenquin
(PRINT OR TYPE NAME)

By: Mike Jenquin
(CONTRACTOR REPRESENTATIVE)

Date: June 19, 2023

PURCHASER:
I have read and understand the terms and conditions on both sides of this contract.

_____
(PRINT OR TYPE NAME)

By: _____
(PURCHASER AUTHORIZED REPRESENTATIVE)

Date of acceptance: _____

TERMS AND CONDITIONS

NOTICE OF LIEN RIGHTS

AS REQUIRED BY THE WISCONSIN CONSTRUCTION LIEN LAWS, CONTRACTOR HEREBY NOTIFIES OWNER THAT PERSONS OR COMPANIES FURNISHING LABOR OR MATERIALS FOR THE CONSTRUCTION ON OWNER'S LAND MAY HAVE LIEN RIGHTS ON OWNER'S LAND AND BUILDING IF NOT PAID. THOSE ENTITLED TO LIEN RIGHTS, IN ADDITION TO THE UNDERSIGNED CONTRACTOR, ARE THOSE WHO CONTRACT DIRECTLY WITH THE OWNER OR THOSE WHO GIVE THE OWNER NOTICE WITHIN SIXTY (60) DAYS AFTER THEY FIRST FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION. ACCORDINGLY, OWNER PROBABLY WILL RECEIVE NOTICES FROM THOSE WHO FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION, AND SHOULD GIVE A COPY OF EACH NOTICE RECEIVED TO THE MORTGAGE LENDER, IF ANY. CONTRACTOR AGREES TO COOPERATE WITH THE OWNER AND THE OWNER'S LENDER, IF ANY, TO SEE THAT ALL POTENTIAL LIEN CLAIMS ARE DULY PAID.

ACCEPTANCE OF WORK

All labor and material is conclusively accepted as satisfactory unless excepted to in writing within seven (7) days of performance.

EXTRA WORK

All alterations or deviations from any of the terms of this contract shall be in writing and executed by the parties hereto. Any extra cost involved therein will become an extra charge to be paid by PURCHASER over and above the contract price.

PURCHASER'S RESPONSIBILITIES

PURCHASER acknowledges and understands that it shall be responsible for obtaining any and all permits which may be required in connection with performance of this Proposal/Contract. Where applicable, PURCHASER shall also be responsible for backfilling areas that border along the newly paved surface with appropriate material to eliminate potential cracking and uneven surface at the edge of the paved surface and for installing, replacing, maintaining and repairing shoulders. PURCHASER assumes all liability for any damages done to underground utilities and/or structures unless CONTRACTOR has been notified, upon acceptance of this Proposal, as to the specific location and depth of any such buried utility/structures.

Unless exempt, in accepting this Proposal/Contract, PURCHASER acknowledges that it shall comply with the requirements of all applicable federal, state, and local employment laws, executive orders, codes and regulations (the "Requirements") effective where the work and/or services are being performed including, but not limited to, 41 CFR §§ 60-1.4(a)(1)-(8), 60-1.4(b), 60-1.4(c) or their successors effective where this Proposal/Contract is performed. To the extent required by law, all provisions of the Requirements are hereby incorporated into and made a part of this Agreement and any applicable agreements of CONTRACTOR. To the extent applicable, the Requirements include, but are not limited to, (1) prohibition of discrimination because of protected veteran status, disability, race, color, religion, sex, sexual orientation, gender identity, national origin and because of inquiry or discussion about or disclosure of compensation, (2) affirmative action to employ and advance in employment individuals without regard to race, sex, disability, or protected veteran status, (3) compliance with the Employee Notice clause contained in 29 C.F.R. part 471, Appendix A to Subpart A, or its successors, (4) compliance with the EEO-1 and VETS-4212 reports filing requirements in 41 C.F.R. §§ 60-1.7 and 41 C.F.R. §61-300.10, or their successors, (5) compliance with paycheck transparency obligations of 48 C.F.R. § 22.2005, including the contract clause found at 48 C.F.R. § 52.222-60, which is incorporated by reference as if fully set forth herein, (6) other affirmative action in employment, (7) required/certified payrolls, (8) social security acts, (9) unemployment compensation acts, (10) worker's compensation acts, (11) equal employment opportunity acts and (12) the required contract provisions for Federal-Aid Construction Contracts, Form FHWA-1273, if applicable.

When applicable, PURCHASER and CONTRACTOR shall abide by the requirements of 41 CFR 60-300.5(a). This regulation prohibits discrimination against qualified protected veterans, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans. When applicable, PURCHASER and CONTRACTOR shall abide by the requirements of 41 CFR 60-741.5(a). This regulation prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action covered by prime contractors and subcontractors to employ and advance in employment qualified individuals with disabilities.

INCLEMENT WEATHER

Inclement weather may alter the completion of the work to be furnished hereunder. Furthermore, special consideration should be given if work is to be performed before May 1 or after October 15 in light of less than desirable weather conditions which could potentially impair the quality of the work performed hereunder.

WARRANTY

All material is guaranteed to be as specified and all work is to be completed in a workmanlike manner according to standard practices. All labor and materials will be guaranteed against defect for one (1) year from date of installation. Due to Wisconsin winters and expansion and contraction of the ground, some cracking of the pavement may be experienced. There are no express or implied warranties of merchantability, quality, quantity or of fitness for any particular purpose, which extend beyond those specifically set out in this document.

All warranties are void if payment is not made as stipulated.

DELINQUENCY CHARGE

Payment is due and payable upon completion of each stage of the work. If PURCHASER defaults on the payment required, PURCHASER will be liable for all costs of collection, including reasonable attorney's fees, and a delinquency charge on the balance at the maximum rates allowed by law. If PURCHASER is an organization as defined by Wis. Statutes, Section 421.301(28), the Delinquency Charge rate shall be 1.5% per month (18% APR) plus all costs of collection, including reasonable attorney's fees. CONTRACTOR retains title to all merchandise covered by this Agreement until full payment is received according to the above terms of sale. PURCHASER consents in any action or legal proceeding relating to this Contract commenced by the CONTRACTOR to the personal jurisdiction of any court that is either a court of record in the State of Wisconsin or a court of the United States located in the State of Wisconsin. It is hereby agreed that no legal action with respect to this contract may be brought by either party later than one (1) year after the cause of action accrues and that the party asserting such a legal action shall be barred from any remedy thereto.

INDIVIDUAL LIABILITY

The undersigned PURCHASER agrees to be individually liable for all terms of the Agreement, regardless of whether he or she signs individually or as an agent for the owner of the property upon which the work is being performed or for any other individual, partnership or corporation.

PRODUCT INFORMATION AND MAINTENANCE

Since the asphalt in blacktop needs time to harden and cure, usually 6-12 months, your asphalt pavement will remain soft and pliable during warm weather. During this time, don't park in the same spot every time and do not turn your steering wheel back and forth when your car is not moving. It is not unusual to experience some cracking over the winter due to the contraction and expansion of the ground, especially over culverts, pipes, electric wires, etc. Avoid gasoline and petroleum product spills as they will destroy your pavement. If spills do occur, immediately flush with lots of soapy water. If you decide to seal coat your pavement, wait until the summer following installation.

BINDING EFFECT

This Agreement shall be binding upon the parties hereto, their heirs, personal representatives, successors and assigns.

ENTIRE AGREEMENT

The entire contract is embodied in this writing. This writing constitutes the final expression of the party's agreement, and is a complete and exclusive statement of that agreement. In the event that any term of this contract is unenforceable, the remaining terms of the contract shall still be in full force and effect.

Village of McFarland								
Road Maintenance 2023- Specifications Attached								
Roadways:								
Road	**Start**		**Stop**		**Crack Fill**	**Chip Seal**	**Pricing**	**Notes**
E. Red Oak	Holscher		Transition 6135 E. Red Oak		x	x	$ 6,620	
East Linden Pkwy	Entirety		Entirety		x	x	$ 10,695	
Frost Aster Court	Entirety		Entirety		x	x	$ 2,730	
Little Blue Stem	Entirety		Entirety		x	x	$ 10,615	
Lodgecliff Lane	Entirety		Entirety		x	x	$ 8,065	
Meadow Grass Court	Entirety		Entirety		x	x	$ 2,883	**No Cracks on Road
Merrill Court	Entirety		Entirety		x	x	$ 7,384	
Pine Ridge Road	Little Bluestem		6086 Pine Ridge Way		x	x	$ 1,580	
Smith Ridge Road	Entirety		Entirety		x	x	$ 5,834	
Lake Street	Entirety		Entirety		x	x	$ 3,929	
Glenway Street	Osborn		Broadhead		x		$ 1,055	** Crack Fill = yes
Holscher Road	Siggelkow Road		E. Linden Pkwy		x		$ 500	
Holscher Road	E. Linden Pkwy		Broadheat St.		x		$ 800	
Oak Hollow	Entirety		Entirety		x		$ 2,405	
Park Street	Entirety		Entirety		x		$ 864	
Perrot Place	Entirety		Entirety				$ 6,345	
TOTALS							$ 72,304	
Manholes	**$200 per manhole		Everglade Ct		1		$ 200	
			North Pass		5		$ 1,000	
			Sighting Road		1		$ 200	
Grand Total							$ 73,704	

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Public Works**

CONTACT: **Lee Igl, Public Works Director**

AGENDA ITEM: **Discussion and action regarding a proposal for sidewalk maintenance.**

PREVIOUS ACTION:

None.

ISSUE SUMMARY:

Property owners are the maintaining authority of the sidewalk adjacent to their property. To assist property owners with correction of structural deficiencies with concrete sidewalks and ramps, the Department of Public Works inspects and corrects and/or replaces defective sidewalk sections on an annual basis. This process is driven by inspections and citizen requests/inquiries. Replacement areas are logged on our GIS system. Residents are not assessed for this work as funds in the Public Works budget cover this.

We are moving into our third year of completing sidewalk replacement and repairs to identified sidewalk slabs. Besides removing and replacing the slabs, raised sidewalk edges can be cut and ground to eliminate the trip hazard. This practice is about 30% to 50% less expensive than removal and replacement.

Staff has received a proposal from Safe Step, LLC to complete all saw cutting in the two areas shown in the attached proposal, not to exceed $12,000.

Enclosed in your packet is a proposal from Safe Step, LLC, for the 2023 work to be completed. Funds for this work have been allocated in the 2023 budget.

Safe Step, LLC, the proposal provider, has worked in the village in the past and we have been very pleased with their work. They are a reputable and well-respected company.

The Public Works & Utilities Committee will review the enclosed proposal at their meeting on June 26, 2023. Staff will provide an update regarding their recommendation at the meeting.

FINANCIAL/BUDGET IMPACT:

The funds for the 2023 Sidewalk saw cutting project are included within the 2023 Budget.

VILLAGE PLAN REFERENCE:

None.

ORDINANCE REFERENCE:

None.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

Recommended motion:

Motion, second to recommend approval regarding a proposal from Safe Step, LLC, not to exceed $12,000.

ATTACHMENTS:

1. McFarland Sawcutting Project 2023 SafeStep

SAFE STEP LLC
Safe Sidewalk Solutions

Sidewalk Repair Proposal

Presented to: Lee Igl
Village of McFarland
McFarland Sawcutting Project 2023
June 15, 2023

Scott Prochaska • Project Manager • 920.636.8231• Scott@notrippin.com • www.notrippin.com

*Information contained in this proposal is proprietary and confidential, and is to be used solely by **Village of McFarland** personnel in evaluating the project. Copying, unauthorized disclosure, reuse in any form is prohibited.*

Introduction

June 15, 2023

Lee Igl
Village of McFarland
5915 Milwaukee St
McFarland, Wisconsin 53558

Lee,

Thank you for the opportunity to present this proposal for sidewalk trip hazard repair.

Review

1. The Village of McFarland has requested Safe Step LLC evaluate specific sidewalk defect locations as well as sidewalk segments, identified by the Village of McFarland, in priority order until the $12,000.00 budget has been reached.
    1. Based upon initial evaluation of the specific sidewalk defects provided by the Village, Safe Step LLC estimates there to be $7,586.80 in saw-cutting repair work so far.
    2. The remaining budget of approximately $4,413.20 will be used to evaluate for both replacement as well as saw-cutting.
    3. Safe Step LLC will use the following criteria for evaluating sidewalk segments:
        1. Panels with offsets from 1/2" to 1 3/4" for saw-cutting, greater than 1 3/4" for replacement
        2. Panels next to trees that are displaced or have other defects for replacement
        3. Panels with active spalling or pits greater than 1/2" for replacement
        4. Panels with cracks will be recorded for client review
    4. Safe Step LLC will use replacement rates of $21.00/sq. ft. for 4" thick concrete and $23.00/sq. ft. for 6"
2. Upon reaching the budget, the evaluation will stop. If all of the priority areas are able to be included prior to reaching the budget, Village of McFarland can provide additional sidewalk segments for evaluation.

Please let me know if you have any questions. We look forward to serving your needs.

Scott Prochaska
Project Manager
PO Box 411
Hortonville, WI 54944
920.636.8231
Scott@notrippin.com

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Execution Strategy

Based on our discussions, Safe Step will execute the project as follows:

1. .Confirm sidewalk evaluation area and defect identification criteria (enclosed)
    1. Page 3 of this proposal contains the sidewalk areas and the priority in which they should be evaluated and repaired.
2. Evaluate current sidewalk conditions
    1. Safe Step LLC will evaluate the sidewalk locations in the priority order until the budget is met.
    2. Identified defects will be recorded along with the measurement, address, approximate GPS coordinates, important notes, and a photo of the defect.
3. Deliver evaluation results
    1. Following the completion of the evaluation, Safe Step LLC will provide the sidewalk defect data through a proprietary online tool called *Sidewalk Central™*. This data includes locations, descriptions, suggested repair types, and photos of each defect identified.
    2. *Sidewalk Central™* allows you to review, make notes, and confirm the preferred repair type for each defect.
4. Perform repairs
    1. After you review and confirm the repair locations, we will schedule a timeframe to begin repairing the identified saw-cutting locations.
    2. All saw-cutting repairs will be done in accordance with "The Safe Step LLC Approach" outlined on page 5 of this proposal.
    3. *Sidewalk Central™* allows you to monitor the saw-cutting in real-time, providing defect completion status as well as repair photos and timestamps for quality assurance
5. Provide documentation
    1. At the conclusion of the project, we will provide a final report of saw-cut locations repaired including the displacement measurements, address, approximate GPS coordinates, and important notes.

Scott Prochaska • Project Manager • 920.636.8231• Scott@notrippin.com • www.notrippin.com

*Information contained in this proposal is proprietary and confidential, and is to be used solely by **Village of McFarland** personnel in evaluating the project. Copying, unauthorized disclosure, reuse in any form is prohibited.*

Defect Location Map

The map below indicates the approximate locations of sidewalk defects suitable for saw-cutting repair based on survey locations from Lee Igl.

Due to the limitations of GPS mobile app technology, the locations shown above should be relied upon as approximate to their actual locations.
Map Data: Google

Survey Summary

1. The survey was performed on 06/10/2023
2. **75** total sidewalk defects were selected for saw-cutting on the initial walk through totaling **$7,586.80**

Scott Prochaska • Project Manager • 920.636.8231• Scott@notrippin.com • www.notrippin.com

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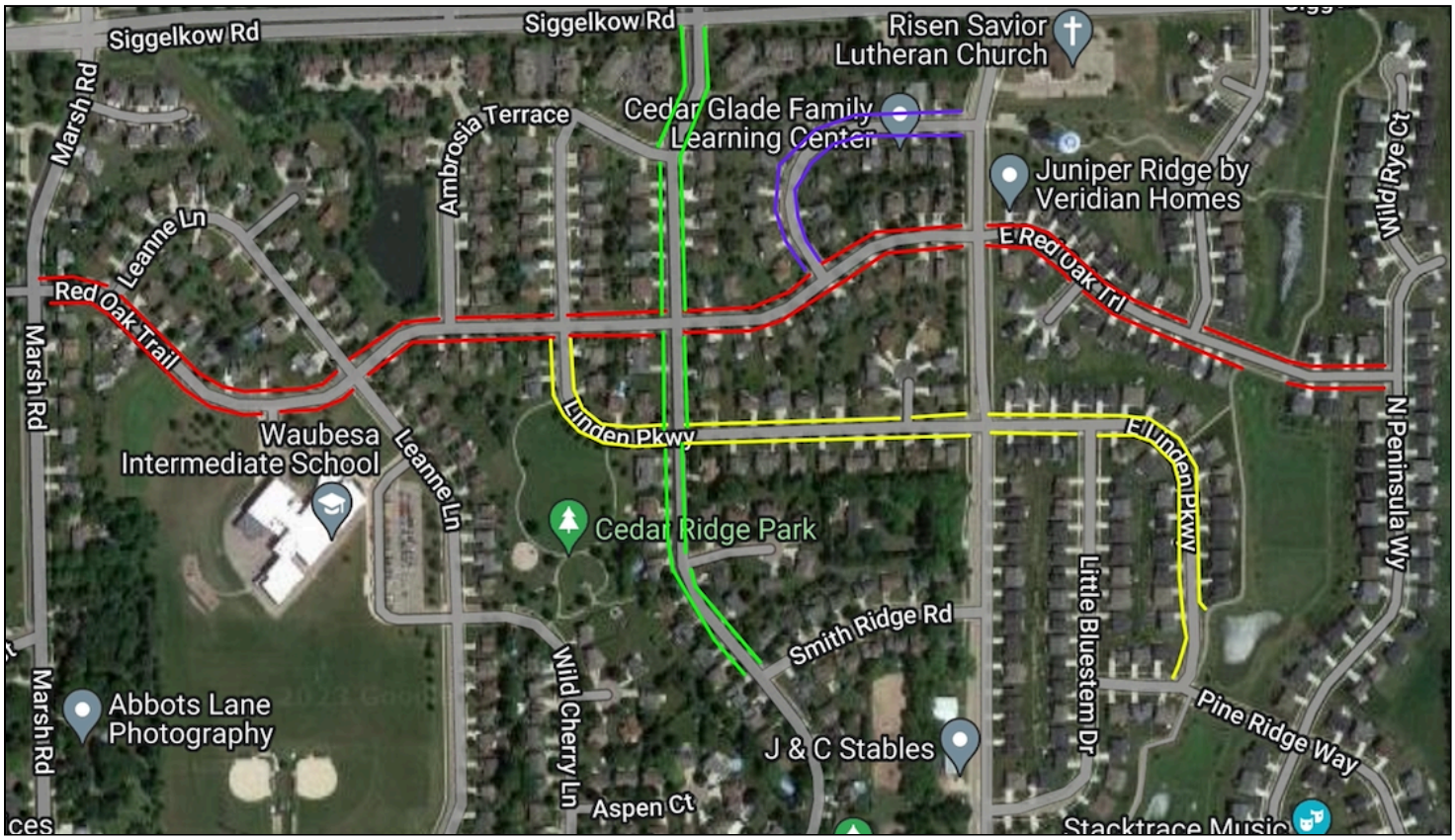
Additional Priority Areas Map



Map Data: Google

Survey Area and Priorities

1. Priority 1: Red (1.36 Miles)
2. Priority 2: Yellow (.87 Miles)
3. Priority 3: Green (.65 Miles)
4. Priority 4: Purple (.30 Miles)
5. Total Miles: 3.19

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The Safe Step Approach

Specifications

1. Repairs will be tapered to a 1:12 slope ratio and taken to a zero point of differential between adjoining sidewalk panels along the full width of the sidewalk, in accordance with ADA standards.
2. Repairs shall have a smooth and uniform finish with a coefficient of friction meeting OSHA requirements and shall not impact adjoining sidewalks, driveways, landscaping, or other objects within the vicinity of the work.
3. In instances where sidewalk conditions do not permit a 1:12 slope ratio, repairs will be made with the shallowest slope possible for the given sidewalk condition.

Clean-up

1. All saw-cutting will be performed without water-cooling; No slurry will be created eliminating the risk of "tracking" and run-off water contamination.
2. Saw mounted dust abatement systems will be used to minimize airborne dust. Containment systems are designed for fine dust applications.
3. Debris and concrete shall be cleaned from the sidewalk surface as well as surrounding rails, sidewalks, driveways, landscaping, or other objects within the vicinity of the work.

Reporting

1. Upon completion of the project, Safe Step LLC will provide a detailed and audit-able report. This report will include the street address or location, dimensions, and GPS coordinates of each repair made.
2. An invoice for payment will be provided when the projected has been completed. Payment in full is due **30 days** from the date of invoice. Late payments may be subject to a $30 re-billing fee.

Safety and Insurance

1. Safe Step LLC employees who work directly in slab displacement repair undergo a rigorous training process with emphasis on safe work practices, OSHA-approved personal protection equipment, and quality workmanship. It is not uncommon for our clients to receive unsolicited compliments on our safety practices and the quality of the work performed.
2. Safe Step LLC is fully licensed and insured. Proof of auto, liability, and workers compensation insurance are available upon request.

Proprietary Technology

1. Safe Step LLC is the only entity in Wisconsin, Northern Illinois, and Southeast Minnesota authorized to use the Precision Concrete Cutting method for removing sidewalk trip hazards as described by the following patent numbers: U.S. Pat. No. 6,827,074, U.S. Pat. No. 7,000,606, U.S. Pat. No. 7,143,760, U.S. Pat. No. 6,896,604, U.S. Pat. No. 7,201,644, U.S. Pat. No. 7,402,095. These patents refer to the equipment, methods, and dust abatement systems used by Safe Step LLC. A sole source letter is available upon request.

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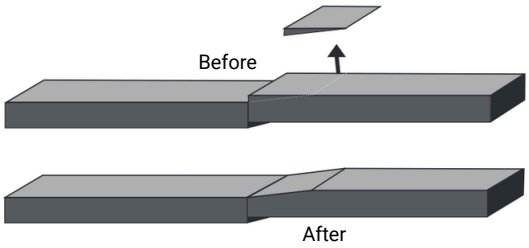
Our Result



Before

After

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Proposal Acceptance

Financial Parameters

1. Financial Parameters
    1. The total cost of the reporting and saw-cutting repairs will not exceed **$12,000.00**
    2. Safe Step LLC will accept full responsibility for any project cost overage, provided that the scope of the project is not altered once the project begins. Any requested change in scope will be fully discussed and approved by the Village of McFarland prior to the start of the work on the revised area.

If this proposal is acceptable, please complete and sign below. We will contact you upon receiving this form to schedule your project.

Cost: $12,000.00 **Proposal #: 201582**

Due to the ongoing supply chain issues and labor availability, the pricing in this proposal is only valid until **July 12, 2023**.

Billing Contact Name: Contact

Billing Email Address: Email

PO Number: PO Number (Optional) Does this project require prevailing wage?: Yes/No

Approved by: Approved by Date: Date Signed

Signed: SIGNATURE Lee Igl Title: Title

Client Notes:

Use this form to provide us with any other information we may need to know.

For a valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the above signed hereby agrees to defend, indemnify, and hold contractor harmless with respect to any and all liability whatsoever arising from contractor's activities in attempting to repair concrete sidewalk and other slabs owned by the above signed or within the above signed's dominion and control, and to defend, indemnify, and hold harmless contractor with respect thereto.

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VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Business**

DEPARTMENT: **Administration**

CONTACT: **Cassandra Suettinger, Deputy Administrator/Clerk, Matt Schuenke, Village Administrator**

AGENDA ITEM: **Discussion and action to rescind the decision to construct a one-floor option for the Municipal Center renovation as presented within the McFarland Municipal Center Master Plan project.**

PREVIOUS ACTION:
The Village Board accepted the McFarland Municipal Center Campus Master Plan at its meeting on May 23, 2023.

On June 13, 2023 the Village Board voted in favor of a one-floor option for the Municipal Center renovation as presented within the McFarland Municipal Center Master Plan project.

ISSUE SUMMARY:
A request was received from Trustee Wreh for the Village Board to consider rescinding the action it took at its meeting on June 13th to select Option #1 from the McFarland Municipal Center Campus Master Plan. Option #1 would advance a one-story option to renovate the Municipal Center facility as opposed to the other consideration of Option #2 which would advance a two-story option. Trustee Wreh is asking the Village Board to reconsider its decision by rescinding that action in order to allow for further discussion and analysis regarding the options to be further evaluated by the Village Board. The objective for the meeting on Tuesday is to decide whether this action should be rescinded or not to allow for additional debate. This process on rescinding is further explained below.

Please click on this link to view background information from the June 13th meeting.

Please click on this link to view the McFarland Municipal Center Campus Master Plan.

Robert's Rules of Order allow for decisions of a governing body to be rescinded as long as no portions of the original decision have been carried out. In the case of the Municipal Center Campus Master Plan project, no additional action has taken place since the action taken at the last meeting. Thus, a request to rescind the prior action and for the Village Board to consider such a request remains possible. The Village Attorney confirmed this is procedurally acceptable.

Procedurally speaking, please review the following to consider the following:

- A motion to rescind the decision to construct a one-floor option for the Municipal Center

renovation as presented with the McFarland Municipal Center Campus Master Plan project must be made. This motion can be made by anyone, regardless of how they voted on the original decision. The agenda for Tuesday is established to allow solely for this purpose.

- A second to the motion will need to be provided to continue to discussion.
    - If a second is received, the Board may enter into discussion as it normally does to further consider action.
    - If no second is received, the motion dies for lack of second and the Board moves on following the action taken at the previous meeting.
- Once discussion is closed following a second, the Board will need to vote on the motion. ***It is important to note, the motion to rescind only nullifies the original action and allows for the Board to discuss the item again. It does not commit the Board to anything more than nullifying the original action and discussing it again.***
- A simple majority is required to pass the motion to rescind.
- If approved, further consideration of the options from the Master Plan will be placed on a future agenda.

FINANCIAL/BUDGET IMPACT:
Financial projections on the project were provided at the last meeting. Please see the links to that meeting agenda for background and also the link for the master plan for further details on costs.

VILLAGE PLAN REFERENCE:
N/A

ORDINANCE REFERENCE:
N/A

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Recommended Action:

Motion, second to rescind the decision to construct a one-floor option for the Municipal Center renovation as presented within the McFarland Municipal Center Campus Master Plan project.

ATTACHMENTS:
None

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Staff Reports**

DEPARTMENT: **Administration**

CONTACT: **Cassandra Suettinger, Deputy Administrator/Clerk, Matt Schuenke, Village Administrator**

AGENDA ITEM: **Discussion and action on a referral request from Trustee Wreh and Trustee Fessler to adopt a resolution declaring McFarland a sanctuary for Trans and Nonbinary individuals.**

PREVIOUS ACTION:

ISSUE SUMMARY:
Attached is the referral request from Trustee Wreh and Trustee Fessler Both will be prepared to present their item and request for referral.

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:
Recommended for discussion and possible referral.

ATTACHMENTS:
1. DECLARING VILLAGE OF MCFARLAND A SANCTUARY FOR TRANS AND NONBINARY INDIVIDUALS (1)

DECLARING VILLAGE OF MCFARLAND A SANCTUARY FOR TRANS AND NONBINARY INDIVIDUALS

In the last few years, states have advanced a record number of bills that attack LGBTQIA+ rights, especially transgender youth. So far in this year's legislative session, state lawmakers across the country have introduced more than 491 bills that restrict fundamentals like health care, education and the freedom of expression for LGBTQIA+ + people, according to analysis from the American Civil Liberties Union (ACLU). Most bills have advanced to committee and nearly two dozen have passed into law. That overall tally is up from last year, according to the Human Rights Campaign, when 315 bills were introduced.

The American Civil Liberties Union (ACLU) has tracked legislation which takes many forms, including:

- Bills that attempt to limit the ability to update gender information on IDs and records, such as birth certificates and driver's licenses.

- Bills that attempt to undermine and weaken nondiscrimination laws by allowing employers, businesses, and hospitals to turn away LGBTQIA+ people or refuse them equal treatment.

- Bills that restrict how and when LGBTQIA+ people can be themselves, limiting access to books about them and trying to ban or censor performances like drag shows.

- Bills that target access to medically-necessary health care for transgender people; ban affirming care for trans youth; create criminal penalties for providing this care; and bills that block funding to medical centers that offer gender-affirming care, or block insurance coverage of health care for transgender people.

- Public accommodations bills seek to prohibit transgender people from using facilities like public bathrooms and locker rooms.

- Bills that prevent trans students from participating in school activities like sports, force teachers to out students, and censor any in-school discussions of LGBTQIA+ people and issues.

Trans Americans are four times more likely to be victims of violent crime than their cisgender peers, according to a 2021 study. Trans youth, who have been the primary focus of anti-trans legislation this year, are experiencing a mental health crisis: A 2022 survey by the Trevor Project, a suicide prevention group focused on LGBTQIA+ youth, found that 86 percent of trans or nonbinary youth reported negative effects on their mental health stemming from the political debate around trans issues, and nearly half had seriously considered suicide in the past year.

In this hostile environment, some cities and counties across the country are taking steps to support and protect trans and nonbinary individuals.

- Kansas City Missouri recently approved measures indicating the city will not prosecute or fine any person or organization that seeks, provides, receives or helps someone to receive gender-affirming care such as puberty blockers, hormones or surgery. The resolution also says that if the state passes a law or resolution that imposes criminal or civil punishments, fines or professional sanctions in such cases, personnel in the city will make enforcing those requirements "their lowest priority."

- In Texas, the City of Austin declared last year that it should be considered a sanctuary for transgender youth and their families, and Harris County, home to Houston, declared it wouldn't pursue cases against parents over gender-affirming care. California, Minnesota and Washington have declared themselves sanctuary states for gender-affirming care, as have the cities of Chicago, Minneapolis and West Hollywood.

McFarland values its transgender and nonbinary residents and vigorously opposes measures that would allow legal violence toward trans people in accessing gender-affirming care or expression.

NOW, THEREFORE, BE IT RESOLVED that the Village of McFarland Board of Trustees firmly states its commitment to protect transgender and nonbinary individuals, and believes that access to health care is a fundamental right and all people in Village of McFarland, Dane County and the State of Wisconsin should have access to all health care, including gender affirming care.

BE IT FURTHER RESOLVED that, if the state of Wisconsin passes a law that imposes criminal or civil punishments, fines, or professional sanctions on any person or organization that seeks, provides, receives or helps someone to receive gender-affirming care such as puberty blockers, hormones or surgery, the Village of McFarland Board of Trustees urges the Sheriff and Police Department make enforcement their lowest priority.

BE IT FURTHER RESOLVED that the Village of McFarland be considered a safe place, a sanctuary, for transgender children and adults and their families.

BE IT FURTHER RESOLVED that the Village of McFarland Board of Trustees urges all municipal bodies and school boards in Dane County to join local and county government in support of our transgender and non-binary residents by adopting similar resolutions.

BE IT FINALLY RESOLVED that a copy of this resolution be sent to Governor Tony Evers; the Dane County state legislative delegation; U.S. Senators Tammy Baldwin and Ron Johnson; the Wisconsin Congressional delegation; all Dane County town board chairs, village presidents, and city mayors; and all Dane County school board presidents.

VILLAGE OF
McFarland

SUMMARY SHEET

MEETING DATE: **Tuesday, June 27, 2023**

SECTION: **Schedule Next Meeting**

DEPARTMENT: **Administration**

CONTACT:

AGENDA ITEM: **Special Village Board (Strategic Planning) - July 13, 2023 - 5:30 p.m.**

PREVIOUS ACTION:

ISSUE SUMMARY:

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

ATTACHMENTS:
None