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2023

Wetland Health Evaluation Program

Dakota County, Minnesota

Appendix A-1. Invertebrate Metric Scores, WHEP 2023

Site Number	Leech Metric	Corixid Metric	Odonata Metric	ETSD Metric	Snail Metric	Total Taxa Metric	Total IBI Score
AV-1	3	5	5	5	1	5	24
AV-6	1	5	3	3	1	3	16
AV-12	1	5	3	3	3	5	20
AV-13	5	5	5	1	3	5	24
B-1	1	1	1	5	5	5	18
B-2	1	5	3	1	3	3	16
B-12	3	3	1	1	3	3	14
B-17	3	3	5	1	3	5	20
DC-1	1	5	1	5	5	5	22
DC-4	3	3	1	3	5	5	20
DC-5	1	5	1	3	3	3	16
DC-13	1	3	1	3	1	3	12
DC-2	3	5	1	3	1	3	16
DC-3	3	1	1	3	1	3	12
DC-6	1	3	5	3	1	3	16
DC-7	5	5	1	3	1	5	20
E-34	1	5	1	5	5	5	22
E-47	3	3	1	3	1	3	14
F-3	1	5	1	1	3	1	12
F-9	1	5	1	1	3	3	14
H-4	1	1	1	1	3	3	10
H-6	1	5	1	3	3	3	16
H-56	1	5	1	1	5	3	16
H-57	1	5	3	1	3	3	16
L-7	1	3	1	5	3	3	16
L-8	1	5	3	1	3	5	18
MH-2	1	3	1	1	5	3	14
MH-9	1	5	1	5	5	5	22
NC-1	na	na	na	na	na	na	na
NC-3	na	na	na	na	na	na	na
R-4	5	1	1	3	3	5	18
R-15	1	3	3	3	3	3	16
R-20	5	5	1	1	3	5	20
R-26	3	5	1	1	3	3	16
SSP-1	1	3	1	1	1	1	8
SSP-3	5	5	3	1	1	5	20
WSP-3	5	3	1	1	1	3	14
WSP-4	3	5	1	1	3	3	16
WSP-7	3	1	1	1	1	1	8

Appendix B: Invasive Species Presence, WHEP 2012-2023

Site #	Purple loosestrife	Reed canary grass	Curlyleaf pondweed	Eurasian Watermilfoil	Honeysuckle	Buckthorn	Mystery snail
AV1		1					
AV6		1					1
AV7		1					
AV8		1					
AV10		1				1	
AV11		1					1
AV12		1				1	1
AV13	1	1		1			1
AV18		1	1				1
AV19		1				1	
AV20		1				1	
B1	1	1				1	
B1A	1	1					
B2		1				1	
B3							1
B4		1					
B6		1					
B7		1					
B8	1	1					
B9	1	1					
B10		1					
B12		1				1	
B13	1	1		1			1
B17	1	1					
B18		1				1	
DC1		1					1
DC2		1					
DC3		1					
DC4		1				1	
DC5	1	1				1	
DC6		1		1			
DC7		1				1	
DC8		1					
DC9		1					
DC10		1					
DC13							
E7		1					
E9	1	1					
E1		1					1
E10		1	1				
E11	1	1		1			
E18		1				1	
E20		1					
E22		1					
E24		1					1
E30							1
E31		1					1
E32		1	1				1
E33		1					
E34	1	1					
E35		1					
E36		1					

Site #	Purple loosestrife	Reed canary grass	Curlyleaf pondweed	Eurasian Watermilfoil	Honeysuckle	Buckthorn	Mystery snail
E37		1					
E38		1					
E40		1					1
E41		1				1	1
E42		1					
E43						1	
E44							
E45		1					
E46					1		
E47		1					1
F3	1	1	1	1			
F6		1					
F7		1					
F9		1					
H4	1	1	1		1		1
H6	1	1	1			1	1
H56	1	1					
H57	1	1					1
L7	1	1					
L8		1	1	1			1
L9		1					
L10		1					
LD1	1	1					
MH2	1	1				1	
MH4		1					
MH9						1	
MH16		1					
MH17		1					
MH19						1	
MH20	1	1			1	1	
NCR1	1	1					
NCR2		1					
NCR3		1					
R1		1					
R2		1					1
R4		1	1				1
R6		1					
R14		1					
R15		1	1				
R20		1					
R21	1	1					
R23	1	1					
R25		1					
R26	1	1					
SSP1	1	1	1			1	1
SSP3		1				1	
SSP4	1						
WSP1	1	1				1	1
WSP2		1					
WSP3	1	1	1			1	
WSP4	1	1				1	
WSP5		1					1
WSP6	1	1			1	1	1
WSP7		1					

Site #	Purple loosestrife	Reed canary grass	Curlyleaf pondweed	Eurasian Watermilfoil	Honeysuckle	Buckthorn	Mystery snail
WSP8		1					
WSP9		1				1	
WSP10		1					1
WSP12	1						
WSP18	1						

Appendix C: Site Score Averages of Created, Stormwater, and Natural Wetland, WHEP 2008-2023

Wetland	Invertebrates			Vegetation		
	Created Wetlands	Stormwater Wetlands	Natural Wetlands	Created Wetlands	Stormwater Wetlands	Natural Wetlands
AV-1		22			17	
AV-5			15			18
AV-6		16			17	
AV-7		11			14	
AV-8		15			20	
AV-10			12			13
AV-11			20			17
AV-12		20			19	
AV-13		24			17	
AV-14		12			9	
AV-15		11			13	
AV-16					17	
AV-17			8			15
AV-18		10			19	
AV-19			14			19
AV-20			20			19
B-1			18			29
B-1 Alt.			20			23
B-2			16			21
B-3		20			19	
B-4			22			19
B-6		16			17	
B-7		17			18	
B-8			22			14
B-9		16			17	
B-10		20			14	
B-11		18			21	
B-12			14			21
B-13		16			17	
B-14			14			19
B-17			20			17
B-18			14			21
DC-1			22			23
DC-2			16			21
DC-3			12			27
DC-4			20			33
DC-5			16			23
DC-6			16			27
DC-7			20			33
DC-8			14			11
DC-9			14			22
DC-10			12			13
DC-13		12			23	
E-1		16			23	
E-7		22			20	

Wetland	Invertebrates			Vegetation		
	Created Wetlands	Stormwater Wetlands	Natural Wetlands	Created Wetlands	Stormwater Wetlands	Natural Wetlands
E-9			16			23
E-10		16			19	
E-11		12			23	
E-18		15			20	
E-20		19			23	
E-21		20			17	
E-22		19			19	
E-24		10			21	
E-25		16			19	
E-26		14			15	
E-27		18			21	
E-28		16			21	
E-29			14			27
E-31		22			21	
E-32		18			21	
E-33		16			21	
E-34		22			19	
E-35			12			27
E-36		14			23	
E-37		18			17	
E-38		24			19	
E-39		16			11	
E-40		18			15	
E-41		18			25	
E-42		12			19	
E-43		22			19	
E-44		14			23	
E-45			10			25
E-46		16			13	
E-47		14			19	
F-1		14			16	
F-3		12			11	
F-4	11			15		
F-5		17			16	
F-6		16			10	
F-7		20			13	
F-8	17			16		
F-9		14			11	
H-4	10			19		
H-6		18			21	
H-30	14			19		
H-56		16			17	
H-57	16			15		
L-4	16			20		
L-7		16			25	
L-8			18			25
L-9	17			17		

Wetland	Invertebrates			Vegetation		
	Created Wetlands	Stormwater Wetlands	Natural Wetlands	Created Wetlands	Stormwater Wetlands	Natural Wetlands
L-10			13			11
LD-1			14			17
MH-2		14			19	
MH-4		19			17	
MH-8		10			9	
MH-9		22			25	
MH-13		16			21	
MH-14		22			25	
MH-15		16			21	
MH-16		24			29	
MH-17	12			15		
MH-18		22			27	
MH-19		14			15	
MH-20		20			21	
NCR-1			24			17
NCR-2			19			16
NCR-3			20			19
R-1		20			19	
R-2		12			15	
R-4		18			15	
R-6			18			18
R-14			22			24
R-15		16			21	
R-18			26			19
R-20		20			23	
R-21	14			23		
R-22		22			22	
R-23	8			19		
R-25		13			27	
R-26			16			13
SSP-1		8			13	
SSP-3		20			17	
SSP-4		18			11	
WSP-1			22			15
WSP-2		17			16	
WSP-3		14			15	
WSP-4		16			15	
WSP-5			14			21
WSP-6			12			13
WSP-7		8			17	
WSP-8			20			16
WSP-9			14			13
WSP-10		10			15	
WSP-12		10			15	

*Scores reflect most recent data

Appendix D: Wetland and Watershed Data, WHEP 2008-2023

Site ID	Site Name	Wetland size (Acres)	Watershed Size (Acres)	% Imperv	Invert. Score	Veg. Score
AV-1	Hidden Valley	2	21	35	22	17
AV-5	Cedar Knolls Pond	0.5	8	20	14	19
AV-6	Belmont Park	1.3	202	20	16	17
AV-7	Podojil Pond	1.3	8	25	14	15
AV-8	Chaparral Pond	1.5	110	30	16	17
AV-10	Alimagnet Park	0.5	25	20	12	13
AV-11	Farquar Lift Station	2.2	373	25	10	17
AV-12	EVR-P12 Public Water	5.7	571	25	20	19
AV-13	EVR-P14	3.6	26	35	24	17
AV-14	EVR-P43, Apple Valley East Park	0.8	2738	35	12	9
AV-15	Carrollwood	1.2	398	30	10	13
AV-16	Nordic Park	1	17	25		17
AV-17	AL-P9.1 Alimagnet Lift Station Chain of Ponds	0.25	7	20	8	15
AV-18	Sunset Park Pond	1	252	30	10	29
AV-19	AL-P9.3 Alimagnet Lift Station Chain of Ponds	0.25	28.5	25	14	19
AV-20	Valleywood Golf Course	1.5	12	0	16	17
B-1	Crystal Lake West	1	444.5	5	18	29
B-1 Alt	Crystal Lake West Alternate	6	550	0	24	19
B-2	Cam Ram	0.41	700	10	16	23
B-3	Kraemer	30	93	30	24	13
B-4	Alimagnet	0.9	701	20	22	19
B-6	Alimagnet East/Dog Park	2.5	34	15	16	17
B-7	Terrace Oaks North	2.2	15.7	5	20	19
B-8	Red Oak	3	115	25	22	11
B-9	Crosstown West	7.2	388	50	16	17
B-10	AP-3 Cedar Pond	3.1	212	22	10	15
B-11	Valley View	1	80	10	16	13
B-12	Terrace Oaks	1.7	68	5	14	21
B-13	Sunset Lake	48	402	40	16	17
B-14	Terrace Oaks	1.73	15	0	14	19
B-17	Terrace Oaks Buckthorn Pond	2.7	20	10	20	17
B-18	Terrace Oaks Central	0.34	2.89	0	14	21
DC-1	Empire Lake	25.1	4000	5	22	23
DC-2	Buck Pond	1.6	12	0	16	21
DC-3	Tamarck Swamp	7.7	56,536	0	12	27
DC-4	Jenson Lake	50	330	7	20	33
DC-5	Wood Pond	0.8	22	0	16	23
DC-6	BB's Wetland	1.2	56,536	NA	16	27
DC-7	Lilypond Pond/LP-15/E-29	2.35	56,536	NA	20	33
DC-8	Star East	NA	NA	NA	14	11
DC-9	Star West	NA	NA	NA	14	25
DC-10	Duck Pond	NA	NA	NA	12	13
DC-13	Thompson Lake	10	56,536	NA	12	23
E-1	Thomas Lake Park Pond	0.4	4	37	18	21
E-7	Discovery Pond	4.1	16.5	0	20	21
E-9	Wilderness Run/LP-50	1.5	25	20	14	17
E-10	AP-3 Cedar Pond	3.1	212	25	14	17
E-11	Central Park Pond	3	56.5	30	12	23
E-18	Moonshine Park Pond	2.5	34	25	14	17
E-20	Shanahan Lake	10.9	56.4	1	10	17
E-21	FP-11.5	0.26	1.6	0	20	19
E-22	FP-11.6	0.58	2.7	0	28	27
E-24	JP-42	2.8	18	25	10	21
E-25	FP 4.5	1	35	55	16	19
E-26	DP-6.2, Northwoods Business Park	3.2	25	44	14	15
E-27	LP-26.54, Thomas Woods Site	0.2	5.3	29	18	21
E-28	HDP-1, Kennerick Addition Site	0.8	39	18	16	21
E-29	LP-15, Lily Pond in Lebanon Hills Pk	6.5	21.8	5.5	12	27

Site ID	Site Name	Wetland size (Acres)	Watershed Size (Acres)	% Imperv	Invert. Score	Veg. Score
E-31	Walnut Hill Pond/LP-69.1	0.65	20	10	22	21
E-32	City Hall Pond	6.6	81.3	14	14	15
E-33	Coventry Pond	5.5	60	35	16	21
E-34	McCarthy Lake	11.3	220	15	22	19
E-35	Prairie Pond	0.8	5.1	0	NA	27
E-36	Mooney Pond	7	41	25	14	23
E-37	Kettle Pond	0.8	23	30	18	17
E-38	Gerhardt Lake	13.5	32	5	24	19
E-39	Black Hawk Middle School	0.3	24	31	16	11
E-40	Heine Pond	7.4	17	15	18	15
E-41	O'Leary Lake	16	84	40	18	25
E-42	LP-44	2.4	49	30	12	19
E-43	LP-41	4	37	30	22	19
E-44	Oak Hills Church Pond	1.5	87	60	14	23
E-45	Oak Chase Pond	0.75	7.5	5	10	25
E-46	LP-65, Northwest Corner of Cliff and Dobbs Rd	1.7	9.2	30	16	13
E-47	Almquist	9.4	245	30	14	19
F-1	Pine Knoll	35	107.5	10.4	NA	13
F-3	Kral Pond	10	41.8	6.6	12	11
F-4	Lake Julia	10	233	21.2	8	11
F-5	Autumn Glen	2.9	10	NA	20	21
F-6	Vermillion River	6.3	16	30	12	9
F-7	Autumn Glen	2.9	10	4	20	13
F-8	Mystic Meadows	6.19	8.23	NA	12	15
F-9	Cambodia	5	24	9	14	11
H-4	Stonegate Treated	1.2	9.5	35	10	19
H-6	Lake Rebecca	19	56	1	18	21
H-30	Sand Coulee	1	107	25	8	13
H-56	180th Street Marsh	20	340	1	16	19
H-57	Cari Park Pond	20	29	14	16	15
L-4	Water Treatment Wetland Bank	22.85	99.8	20	14	15
L-7	DNR 387	10	506.6	29	16	25
L-8	DNR 393	9.6	74.7	17	18	25
L-9	NC 54	13.8	183	12	20	11
L-10	DNR#349W	40	213	NA	12	11
LD-1	Pickeral Lake	NA	NA	NA	14	17
MH-2	Copperfield/Friendly Hills	5.8	965.4	30.1	14	19
MH-4	Industrial Park				16	17
MH-8	Victoria Pond	0.4	209.2	40	10	9
MH-9	Hagstrom-King	3	20	25	22	25
MH-13	MH Par 3	0.5	36	3	20	21
MH-14	Wagon Wheel	0.9	18.1	10	22	25
MH-15	Upper Bridgeview	4.1	66.4	NA	16	21
MH-16	Field Stone	6.9	577.9	20	24	29
MH-17	Marie Pond	0.6	64.2	20	12	15
MH-19	Lexington Marie Pond	1.1	46.5	30	14	15
MH-20	City Hall Orchard Heights	10.6	80.9	30	20	21
NCR-1	Loretto Wetland/formerly Wasner	0.5	160	4	24	17
NCR-2	Peterson	25	55	2	22	15
NCR-3	Jordan Wetland	25	33	9	20	19
R-1	Kelly Marsh/WMP 362 - Derryglen Ct in 2004	1.3	897	20	20	19
R-2	White Lake/WMP 152	22	998	30	12	15
R-4	Schwarz Pond	11	1832	25	18	15
R-6	Keegan Lake/WMP 310	35	1530	30	22	19
R-14	WMP #379	4.8	81	30	22	21
R-15	Birger Pond	0.6	897	20	16	21
R-18	WMP #279	4.5	33.7	30	26	19
R-20	Unnamed/WMP 332	1	897	20	20	23
R-21	CR-38 Mitigation Site 1	1.7	1530	30	14	23
R-22	Mare Pond, South	8	81	10	24	19
R-23	CR-38 Mitigation Site 2	0.3	81	30	8	19

Site ID	Site Name	Wetland size (Acres)	Watershed Size (Acres)	% Imperv	Invert. Score	Veg. Score
R-25	WMP #306	1.7	81	30	14	31
R-26	Erickson Pond/WMP 620	1.9	1832	25	16	13
SSP-1	Anderson Pond	2.4	168	15	8	13
SSP-3	LeVander	3.4	37.9	20	20	17
SSP-4	Villaume Pond	1.66	25	30	18	11
WSP-1	Mud Lake	3.1	34.2	0	22	15
WSP-2	Thompson Lake 48W	9	73920?	50	16	17
WSP-3	Duck Pond	2.5	65	NA	14	15
WSP-4	Wehke Pond	21.9	42.4	0	16	15
WSP-5	Lilly Lake	6.4	22	NA	20	19
WSP-6	Marthaler Park	4.5	23	0	12	13
WSP-7	Humboldt Pond/Vivian Pond	1.2	23	NA	8	17
WSP-8	DNC Prairie Pond	2.9	113	0	16	17
WSP-9	Marie Avenue	2.9	49	NA	14	13
WSP-10	Emerson Pond South	1.2	23	NA	10	15
WSP-12	Wentworth Pond	6	71.2	NA	8	15

*Scores reflect most recent data

Appendix E: Winter Salt Watch Chloride Level Results, WHEP 2023

Site #	Site Name	Quantab Unit	Convert to ppm
AV-1	Hidden Valley (EVR-P53)	1.8	43
AV-6	Belmont Park	4.2	170
AV-12	Everest Pond (EVR-P12)	3.6	131
AV-13	EVR-P14	2.6	77
B-1	Crystal West	1.2	<29
B-2	Kelleher	<0.1	<29
B-12	Terrace Oaks Burnsville Pkwy	0.6	<29
B-17	Alimagnet Powerline ROW	0.2	<29
DC-1	Empire Lake		
DC-2	Buck Pond	0.0	<29
DC-3	Tamarack Swamp	0.6	<29
DC-4	East Jenson	0.6	<29
DC-5	LHRP Wood Pond	na	
DC-6	BB's Wetland	1.4	29
DC-7	Lilypad Pond/LP-15/Originally E-29		
DC-13	Thompson Lake		
E-34	McCarthy	3.6	131
E-47	Almquist Lake	2.2	59
F-3	Kral Pond	3.2	116
F-7	Autumn Glen	1.6	36
F-9	Cambodia Avenue	2.8	91
H-4	Stonegate Treated	2.4	68
H-6	Lake Rebecca	2.9	92
H-56	180th Street Marsh	0.8	<29
H-57	Cari Pond	2.0	51
L-7	DNR 387	2.8	87
L-8	DNR 393	2.2	59
MH-2	Copperfield	3.8	144
MH-9	Hagstrom King	2	51
NC-1	Loretto Wetland		
NC-3	Jordan Wetland		
R-4	Schwarz Pond	5.7	300
R-15	Birger Mitigation Area	2.38	67
R-20	Unnamed	1.8	43
R-26	Erickson Pond	2.8	87
SSP-1	Anderson	3.8	144
SSP-3	Levander	4.8	216
WSP-3	Duck Pond	4.0	157
WSP-4	Weschke Pond	2.4	68
WSP-7	Humboldt Pond	4.2	170

Appendix F: Data sheet review, WHEP 2023

Team Name	Site #	Invertebrate IBI Scores			Vegetation IBI Scores		
		Team	Review	Errors	Team	Review	Errors
Apple Valley	AV-1	24	24	0	21	21	0
	AV-6	16	16	0	17	17	0
	AV-12	20	20	0	19	19	1
	AV-13	24	24	0	17	17	1
	AV xcheck	dry	dry	dry	dry	dry	dry
Burnsville	B-1	18	18	0	29	29	0
	B-2	16	16	0	23	23	0
	B-12	14	14	0	21	21	0
	B-17	20	20	0	17	17	0
	B xcheck	12	12	0	23	23	0
Dakota Co 1	DC-1	22	22	0	23	23	0
	DC-4	20	20	0	25	33	2
	DC-5	16	16	0	23	23	0
	DC-13	12	12	0	23	23	0
	DC1 xcheck	na	na	na	na	na	na
Dakota Co 2	DC-2	16	16	0	21	21	0
	DC-3	12	12	0	27	27	0
	DC-6	16	16	0	27	27	0
	DC-7	20	20	0	33	33	0
	DC2 xcheck	22	22	0	33	33	0
Eagan	E-34	22	22	0	21	19	1
	E-47	14	14	0	17	19	1
	E xcheck	20	20	0	19	19	0
Farmington	F-3	12	12	0	11	11	0
	F-9	14	14	0	11	11	0
	F xcheck	14	14	0	11	11	0
Hastings	H-4	10	10	0	19	19	0
	H-6	16	16	0	20	23	2
	H-56	16	16	0	19	19	0
	H-57	16	16	0	15	15	0
	H xcheck	20	20	0	19	19	0
Lakeville	L-7	16	16	0	27	25	1
	L-8	18	18	0	27	27	1
	L xcheck	12	12	0	15	13	1
Mendota Heights	MH-2	14	14	0	19	19	0
	MH-9	22	22	0	25	25	0
	MH xcheck	24	24	0	19	19	0
NCRWMO	NC-1	dry	dry	dry	dry	dry	dry
	NC-3	dry	dry	dry	dry	dry	dry
	NCR xcheck	14	14	0	17	17	0
Rosemount	R-4	18	18	0	15	15	0
	R-15	16	16	0	21	21	0
	R-20	20	20	0	23	23	0

		Invertebrate IBI Scores			Vegetation IBI Scores		
Team Name	Site #	Team	Review	Errors	Team	Review	Errors
	R-26	16	16	0	13	13	0
	R xcheck	18	18	0	19	19	0
South St. Paul	SSP-1	8	8	0	13	13	0
	SSP-3	20	20	0	17	17	0
	SSP xcheck	14	14	0	17	17	0
West St. Paul	WSP-3	14	14	0	13	15	1
	WSP-4	16	16	0	15	15	0
	WSP-7	8	8	0	17	17	0
	WSP xcheck	14	14	0	13	13	0