APPENDIX C

MnRAM Data Sheets

All Shelburne T123N R30W

MNRAM 3.0 Wetland Assessment Data Form Page 1

SE¼ NW¼ Sec 24T 71-123-30-24-002A NW¼ NW¼ SE¼ Sec 1

		Wetland name / ID	Wetland name / ID	Wetland name / ID	Wetland name / ID
	Date 4/12/06	Wetland "1" C2	Wetland "2" C2	BC-3 Sec 1	BC-2
#1	Special Features (from list, p.2--enter letter/s)	71-123-30-24-001A	SE¼ SE¼ NW¼ Sec 24	SW¼ SE¼ NW¼	-
	Community Number (circle each community which represents at least 10% of the wetland)	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B
#2 & #3	~ Describe each community type individually below ~		~ Describe each community type individually below ~		
Plant Community #1	Community Type (wet meadow, marsh)	- Shallow marsh	- shallow marsh	- shallow marsh	- shallow marsh
	Community Proportion (% of total)	70	35	50	50
	Dominant Vegetation / Cover Class	RCG Typha Carex ssp Sweet flag PEMC	Carex (lab?) large RCG Scirpus willow herb Salix PEMC	RCG Carex arrowhead plantain 71-123-30-01-003 A cattails PUBF	RCG Carex 71-123-30-01-004-A PEM/UBF
	Invasive/exotic Vegetation / Cover Class	None noted	Sting. Nettle / 1	none noted	
	Community Quality (E, H, M, L)	- H 0	H 0	M (RCG Dom)	M/H 0
Plant Community #2	Community Type (wet meadow, marsh)	- Deep marsh	- Wet meadow	- Deep marsh	- Deep marsh
	Community Proportion (% of total)	30	65	50	20
	Dominant Vegetation / Cover Class	Carex sp (lacustris) Typha Mostly open water at time of observ.	RCG	RCG duckweed Carex Bone set blue vervain pugleweed	RCG duckweed typha carex
	Invasive/exotic Vegetation / Cover Class		1/6	none noted	
	Community Quality (E, H, M, L)	- H 0	L 0	M 0	M 0
Plant Community #3	Community Type (wet meadow, marsh)	- -	- -	- -	Shallow open water
	Community Proportion (% of total)				30
	Dominant Vegetation / Cover Class				duckweed
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	0	0	0	H 0
Plant Community #4	Community Type (wet meadow, marsh)	-			
	Community Proportion (% of total)				
	Dominant Vegetation / Cover Class				
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	- 0	0	0	0
	Circular 39 Types (primary <TAB> others)				
	Cowardin Types				
	Photo ID				
	Highest rated community veg. div./integ:	0.0 -	0 -	0 -	0 -
	Average vegetative diversity/integrity:	- -	- -	- -	- -
	Weighted Average veg. diversity/integrity:	0.00 -	0.00 -	0.00 -	0.00 -
#4	Listed, rare, special plant species?	n Y N	Y N	Y N	Y N
#5	Rare community or habitat?	n Y N	Y N	Y N	Y N
#6	Pre-European settlement conditions?	n Y N Some [illegible]	Y N	Y N	Y N

Floodplain Forest [1A, 2A, 3A] * Hardwood Swamp [3B] * Coniferous Bog [2A, 4B] * Coniferous Swamp [4B] * Open Bog [1B, 5A, 5B, 6A, 7A, 9A, 10A] * Calcareous Fen [7B, 11B, 14A] * Shrub Swamp [6B] * Alder Thicket [8A] * Shrub-carr [8B] * Sedge Meadow [10B, 11A, 12A, 13A] * Shallow Marsh [13B] * Deep Marsh [12B] * Wet to Wet-Mesic Prairie [14B, 15A] * Fresh (Wet) Meadow [15B] * Shallow, Open Water [9B, 16A] * Seasonally Flooded Basin [16B]

Cover Class	Class Range
1	0 - 3%
2	3 - 10%
3	10 - 25%
4	25 - 50%
5	50 - 75%
6	75 - 100%

*If there are more than four plant community types, use the next column over to enter the rest and do not rely on the automatic average calculations.

Wetlands land 2 basins are in minor 1702900 BC-3 Minor 1702400) 1703000 Minor WS

Score_sheet_format.xls Vegetative Diversity Integrity 4/11/2006

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Italic questions are answered via GIS analyses or other methods in-office

MnRAM #	Question Description	Wet ID 1 C-2 Rating	Wet ID 2 C-3 Rating	Wet ID BC-3 Rating	Wet ID BC-2 Rating
7	Hydrogeomorphology and Topography (circle one)	(Depressional/Isolated), Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	(Depressional/Isolated), Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	(Depressional/Isolated), Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	(Depressional/Isolated), Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other
8	Maximum Water Depth (inches) : % inundation	1' 24" : 80%	6" : 25	21" : 60	2' : 80
9	*Local Watershed Area--immediate drainage (acres)*	103 acres	103 acres	17 acres	154 acres
10	Estimated size of existing wetland (acres)	1.35 acres	0.9 acres	5.10 acres	4.25 acres
11	*SOILS:* Upland/Wetland (survey classification + site)	up- Hubbard loamy sand wet - Isan Sandy loam	up- " " wet - " "	up - Hubbard wet - Isan	up - Hubbard wet - Isan
12	Outlet characteristics for flood retention	(A) B C N/A	(A) B C N/A	(A) B C N/A	(A) B C N/A
13	Outlet characteristics for hydrologic regime	(A) B C N/A	(A) B C N/A	(A) B C N/A	(A) B C N/A
14	*Dominant upland land use (within 500 ft)*	(A) B C	(A) B C	(A) B C	A (B) C
15	Soil condition (wetland)	A (B) C	(A) B C	(A) B C	(A) B C
16	Vegetation (% cover)	70 %	100 %	50 %	25 %
17	Emerg. veg. flood resistance	A B C (N/A)	A B C (N/A)	A B C (N/A)	A B C (N/A)
18	Sediment delivery	(A) B C	(A) B C	(A) B C	(A) B C
19	*Upland soils (based on soil group)*	Sand (A) B C	Sand (A) B C	Sand (A) B C	Sand (A) B C
20	Stormwater runoff pretreatment & detention	A B (C)	A B (C)	A B (C)	A B (C)
21	*Subwatershed wetland density*	(A) B C	(A) B C	(A) B C	A (B) C
22	Channels/sheet flow	(A) B C	(A) B C	(A) B C	(A) B C
23	Adjacent naturalized buffer, average width (feet)	100 feet	100 feet	50 feet	50 feet
24	Adjacent area management (% of each, minimum 20%)	Full Manicured Bare % 100 % — %	Full Manicured Bare % 100 % — %	Full Manicured Bare % 75 % 25 %	Full Manicured Bare % 80 % 20 %
25	Adjacent area diversity and structure (to 50 ft.) (% percent of each)	Native Mixed Sparse 10% 90% — %	Native Mixed Sparse 20% 80% — %	Native Mixed Sparse 20 % 80 % — %	Native Mixed Sparse — % 20 % 80 %
26	Upland area slope (to 50 ft.) (% in each category)	Gentle Moderate Steep 50% 30 % 20%	Gentle Moderate Steep 50% 50% — %	Gentle Moderate Steep % 5 % 80 % 15	Gentle Moderate Steep — % 50% 50%
27	*Downstream sensitivity/WQ protection*	(A) B C	(A) B C	(A) B C	(A) B C
28	Nutrient loading	A (B) C	A (B) C	A (B) C	A (B) C
29	Shoreline wetland:	Y (N)	Y (N)	Y (N)	Y (N)
30	Shoreline - rooted vegetation (% cover)	— %	— %	— %	— %
31	Shoreline - wetland in-water width (in feet, average)	— ft.	— ft.	— ft.	— ft.
32	Shoreline - emergent veg. erosion resistance	A B C	A B C	A B C	A B C
33	Shoreline - erosion potential	A B C	A B C	A B C	A B C
34	Shoreline - bank protection/upslope veg.	A B C	A B C	A B C	A B C
35	*Rare Wildlife*	Y (N)	Y (N)	Y (N)	Y (N)
36	*Scare/Rare/S1/S2 local community*	Y (N)	Y (N)	Y (N)	Y (N)
37	Vegetation interspersion cover (see diagram 1)	1 2 3 (4) 5 6 7 8 N/A	1 2 (3) 4 5 6 7 8 N/A	1 2 3 (4) 5 6 7 8 N/A	1 2 3 (4) 5 6 7 8 N/A
38	Veg. community interspersion (see diagram 2)	(1) 2 3 N/A	(1) 2 3 N/A	(1) 2 3 N/A	(1) 2 3 N/A
39	Wetland detritus	(A) B C N/A	(A) B C N/A	(A) B C N/A	(A) B C N/A
40	*Wetland interspersion on landscape*	A (B) C	A (B) C	(A) B C	A (B) C
41	Wildlife barriers	(A) B C	(A) B C	A B (C)	A B (C)
42	Amph. breeding potential - hydroperiod	(Adequate) / Inadequate	(Adequate) / Inadequate	(Adequate) / Inadequate	(Adequate) / Inadequate
43	Amphibian breeding potential - fish presence	(A) B C	(A) B C	(A) B C	(A) B C
44	Amphibian & reptile overwintering habitat	A B (C) N/A	A B (C) N/A	A B (C) N/A	A (B) C N/A
45	Wildlife species (list)	Woodfrog, Spring peeper, Leopard frog	Chorus frogs	Chorus frogs, Leopard frog	Chorus frogs, Leopard frog, Wood frog, Spring peeper
46	Fish habitat quality	E A B (C) N/A	E A B (C) N/A	E A (B) C N/A	E A B (C) N/A
47	Fish species (list)			Perch	
48	Unique/rare educ./cultural/rec. opportunity	Y (N)	Y (N)	Y (N)	Y (N)
49	Wetland visibility	A (B) C	A (B) C	A (B) C	A (B) C
50	Proximity to population	(Y) N	(Y) N	(Y) N	(Y) N
51	Public ownership	A (B) C	A (B) C	A (B) C	A (B) C
52	Public access	A B (C)	A B (C)	A B (C)	A B (C)
53	Human influence on wetland	A (B) C Grass	(A) B C	(A) B C	(A) B C
54	Human influence on viewshed	A (B) C	A (B) C	A (B) C	A (B) C
55	Spatial buffer	A (B) C	A (B) C	A (B) C	A (B) C
56	Recreational activity potential	A B (C)	A B (C)	A B (C)	A B (C)
57	Commercial crop--hydrologic impact	A B C (N/A)	A B C (N/A)	A B C (N/A)	A B C (N/A)
58	*GW - Wetland soils*	(R) D	(R) D	(R) D	(R) D
59	*GW - Subwatershed land use*	R (D)	R (D)	R (D)	R (D)
60	*GW - Wetland size and soil group*	R (D)	R (D)	R (D)	R (D)
61	GW - Wetland hydroperiod	(R) D	(R) D	(R) D	R (D)
62	GW - Inlet/Outlet configuration	(R) D	(R) D	(R) D	(R) D
63	GW - Surrounding upland topographic relief	R (D)	R (D)	R (D)	R (D)
64	Restoration potential w/o flooding	Y (N)	Y (N)	Y (N)	Y (N)
65	*Landowners affected by restoration*	all public / 1 2 3+	all public 1 / 2 3+	all public 1 2 / 3+	all public 1 2 / 3+
66 A	*Existing wetland size (acres) [same as #10]*	— acres	— acres	— acres	— acres
66 B	Total wetland restoration size (acres)	— acres	— acres	— acres	— acres
66 C	Potential new wetland area (acres)=B-A	— acres	— acres	— acres	— acres
67	Average width of naturalized upland buffer (potential)	— feet	— feet	— feet	— feet
68	Ease of potential restoration	A B C	A B C	A B C	A B C
69	Hydrologic alteration type	Outlet, Tile, Ditch, GW-pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling
70	Potential wetland type (Circ. 39)	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8
71	Wetland sensitivity to stormwater	E (A) B C	E (A) B C	E A (B) C	E A (B) C
72	Additional stormwater treatment needs	(A) B C	(A) B C	(A) B C	(A) B C

Shellburne T123N R30W

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	Date 4/12/06	Wetland name / ID BC-1 Victland 3 (Victland 2)	Wetland name / ID BC #4 Cater Lake	Wetland name / ID	Wetland name / ID
	Special Features (from list, p.2--enter letter/s)	SW1/4 NW1/4 SE1/4 Sec 1	NW1/4 NW1/4 Sec 1	-	-
#1	Community Number (circle each community which represents at least 10% of the wetland)	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B
#2 & #3	~ Describe each community type individually below ~			~ Describe each community type individually below ~	
Plant Community #1	Community Type (wet meadow, marsh)	wet meadow	shallow OW 2B	-	-
	Community Proportion (% of total)		100		
	Dominant Vegetation / Cover Class	RCG Salix Typha - Native 71-123-30-01-005-A	Salix - willow RCG 71-123-30-01-006-A		
	Invasive/exotic Vegetation / Cover Class	RG/6	RCG/5		
	Community Quality (E, H, M, L)	L 0	0	0	0
Plant Community #2	Community Type (wet meadow, marsh)	-	-	-	-
	Community Proportion (% of total)				
	Dominant Vegetation / Cover Class	Native CAREX			
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	- 0	0	0	0
Plant Community #3	Community Type (wet meadow, marsh)	- -	- -	- -	- -
	Community Proportion (% of total)				
	Dominant Vegetation / Cover Class				
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	0	0	0	0
Plant Community #4	Community Type (wet meadow, marsh)	-			
	Community Proportion (% of total)				
	Dominant Vegetation / Cover Class				
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	- 0	0	0	0
	Circular 39 Types (primary <TAB> others)				
	CoWardin Types				
	Photo ID				
Highest rated community veg. div./integ:		0.0 -	0 -	0 -	0 -
Average vegetative diversity/integrity:		- -	- -	- -	- -
Weighted Average veg. diversity/integrity:		0.00 -	0.00 -	0.00 -	0.00 -
#4	Listed, rare, special plant species?	n Y N	Y N	Y N	Y N
#5	**Rare community or habitat?**	n Y N	Y N	Y N	Y N
#6	Pre-European-settlement conditions?	n Y N	Y N	Y N	Y N

Floodplain Forest [1A, 2A, 3A] * Hardwood Swamp [3B] * Coniferous Bog [2A, 4B] * Coniferous Swamp [4B] * Open Bog [1B, 5A, 5B, 6A, 7A, 9A, 10A] * Calcareous Fen [7B, 11B, 14A] * Shrub Swamp [6B] * Alder Thicket [8A] * Shrub-carr [8B] * Sedge Meadow [10B, 11A, 12A, 13A] * Shallow Marsh [13B] * Deep Marsh [12B] * Wet to Wet-Mesic Prairie [14B, 15A] * Fresh (Wet) Meadow [15B] * Shallow, Open Water [9B, 16A] * Seasonally Flooded Basin [16B]

Cover Class	Class Range
1	0 - 3%
2	3 - 10%
3	10 - 25%
4	25 - 50%
5	50 - 75%
6	75 - 100%

*If there are more than four plant community types, use the next column over to enter the rest and do not rely on the automatic average calculations.

Scan Hubbard - muck bottoms

Italic questions are answered via GIS analyses or other methods in-office

MnRAM #	Question Description	Wet ID "3"	Wet ID BC-4 "Cater Lake"	Wet ID _____	Wet ID _____
		Rating	Rating	Rating	Rating
7	Hydrogeomorphology and Topography (circle one)	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other
8	Maximum Water Depth (inches) : % inundation	6" : 10	6'+ : 100	:	:
9	*Local Watershed Area- immediate drainage (acres)*	154 acres	370 acres		
10	**Estimated size of existing wetland (acres)**	0.35 acres	30+ acres		
11	*SOILS*: Upland/Wetland (survey classification + site)	Wetland - Tam	Wetland - Tam		
12	**Outlet characteristics for flood retention**	A B C N/A	A B C N/A	A B C N/A	A B C N/A
13	Outlet characteristics for hydrologic regime	A B C N/A	A B C N/A	A B C N/A	A B C N/A
14	***Dominant upland land use (within 500 ft)***	A B C	A B C	A B C	A B C
15	Soil condition (wetland)	A B C	A B C	A B C	A B C
16	**Vegetation (% cover)**	100 %	10 %	____ %	____ %
17	Emerg. veg. flood resistance	A B C N/A	A B C N/A	A B C N/A	A B C N/A
18	**Sediment delivery**	A B C	A B C	A B C	A B C
19	*Upland soils (based on soil group)*	A B C	A B C	A B C	A B C
20	**Stormwater runoff pretreatment & detention**	A B C	A B C	A B C	A B C
21	*Subwatershed wetland density*	A B C	A B C	A B C	A B C
22	**Channels/sheet flow**	A B C	A B C	A B C	A B C
23	Adjacent naturalized buffer, average width (feet)	50 feet	90 feet	____ feet	____ feet
24	**Adjacent area management** (to 50 ft.) (% of each, minimum 20%)	Full Manicured Bare. % 80 % 20 %	Full Manicured Bare. % % 80 % 20	Full Manicured Bare. % % %	Full Manicured Bare. % % %
25	Adjacent area diversity and structure (to 50 ft.) (% percent of each)	Native Mixed Sparse % 90 % 10 %	Native Mixed Sparse % 80% 20 %	Native Mixed Sparse % % %	Native Mixed Sparse % % %
26	**Upland area slope** (to 50 ft.) (% in each category)	Gentle Moderate Steep 0 % 50% 50%	Gentle Moderate Steep 10 % % 90%	Gentle Moderate Steep % % %	Gentle Moderate Steep . % % %
27	*Downstream sensitivity/WQ protection*	A B C	A B C	A B C	A B C
28	**Nutrient loading**	A B C	A B C	A B C	A B C
29	Shoreline wetland	Y N	Y N	Y N	Y N
30	**Shoreline - rooted vegetation (% cover)**	%	40 %	____ %	____ %
31	Shoreline - wetland in-water width (in feet, average)	____ ft	40 ft	____ ft	____ ft
32	**Shoreline - emergent veg. erosion resistance**	A B C	A B C	A B C	A B C
33	Shoreline - erosion potential	A B C	A B C	A B C	A B C
34	**Shoreline - bank protection/upslope veg.**	A B C	A B C	A B C	A B C
35	*Rare Wildlife*	Y N	Y N	Y N	Y N
36	***Scare/Rare/S1/S2 local community***	Y N	Y N	Y N	Y N
37	Vegetation interspersion cover (see diagram 1)	1 2 3 4 5 6 7 8 N/A	1 2 3 4 5 6 7 8 N/A	1 2 3 4 5 6 7 8 N/A	1 2 3 4 5 6 7 8 N/A
38	**Veg. community interspersion (see diagram 2)**	1 2 3 N/A	1 2 3 N/A	1 2 3 N/A	1 2 3 N/A
39	Wetland detritus	A B C N/A	A B C N/A	A B C N/A	A B C N/A
40	***Wetland interspersion on landscape***	A B C	A B C	A B C	A B C
41	Wildlife barriers	A B C	A B C	A B C	A B C
42	**Amph. breeding potential - hydroperiod**	Adequate / Inadequate	Adequate / Inadequate	Adequate / Inadequate	Adequate / Inadequate
43	Amphibian breeding potential - fish presence	A B C	A B C	A B C	A B C
44	**Amphibian & reptile overwintering habitat**	A B C N/A	A B C N/A	A B C N/A	A B C N/A
45	Wildlife species (list)	Chorus			
46	**Fish habitat quality**	E A B C N/A	E A B C N/A	E A B C N/A	E A B C N/A
47	Fish species (list)				
48	**Unique/rare educ./cultural/rec. opportunity**	Y N	Y N	Y N	Y N
49	Wetland visibility	A B C	A B C	A B C	A B C
50	**Proximity to population**	Y N	Y N	Y N	Y N
51	Public ownership	A B C	A B C	A B C	A B C
52	**Public access**	A B C	A B C	A B C	A B C
53	Human influence on wetland	A B C	A B C	A B C	A B C
54	**Human influence on viewshed**	A B C	A B C	A B C	A B C
55	Spatial buffer	A B C	A B C	A B C	A B C
56	**Recreational activity potential**	A B C	A B C	A B C	A B C
57	Commercial crop - hydrologic impact	A B C N/A	A B C N/A	A B C N/A	A B C N/A
58	*GW - Wetland soils*	R D	R D	R D	R D
59	*GW - Subwatershed land use*	R D	R D	R D	R D
60	***GW - Wetland size and soil group***	R D	R D	R D	R D
61	GW - Wetland hydroperiod	R D	R D	R D	R D
62	**GW - Inlet/Outlet configuration**	R D	R D	R D	R D
63	GW - Surrounding upland topographic relief	R D	R D	R D	R D
64	**Restoration potential w/o flooding**	Y N	Y N	Y N	Y N
65	*Landowners affected by restoration*	all public 1 2 3+	all public 1 2 3+	all public 1 2 3+	all public 1 2 3+
66 A	***Existing wetland size (acres) [same as #10]***	____ acres	____ acres	____ acres	____ acres
66 B	Total wetland restoration size (acres)	____ acres	____ acres	____ acres	____ acres
66 C	**Potential new wetland area (acres)=B-A**	____ acres	____ acres	____ acres	____ acres
67	Average width of naturalized upland buffer (potential)	____ feet	____ feet	____ feet	____ feet
68	**Ease of potential restoration**	A B C	A B C	A B C	A B C
69	Hydrologic alteration type	Outlet, Tile, Ditch, GW-pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW-pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW-pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW-pump, Wtrshd div., Filling
70	**Potential wetland type (Circ. 39)**	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8
71	Wetland sensitivity to stormwater	E A B C	E A B C	E A B C	E A B C
72	**Additional stormwater treatment needs**	A B C	A B C	A B C	A B C

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86-122-2607-a01-A

		Wetland name / ID	Wetland name / ID	Wetland name / ID	Wetland name / ID
	Date 6/11/06	Fish Creek			
	Special Features (from list, p.2--enter letter/s)	-	-	-	-
#1	Community Number (circle each community which represents at least 10% of the wetland)	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B	3A, 3B, 4A, 4B, 7A, 7B, 8A, 8B, 10A, 13A, 13B, 12B, 14A, 15A, 15B, 16A, 16B
#2 & #3	~ Describe each community type individually below ~		~ Describe each community type individually below ~		
Plant Community #1	Community Type (wet meadow, marsh)	-	-	-	-
	Community Proportion (% of total)	10			
	Dominant Vegetation / Cover Class	RCG Carex spp			
	Invasive/exotic Vegetation / Cover Class	RCG			
	Community Quality (E, H, M, L)	- 0	0	0	0
Plant Community #2	Community Type (wet meadow, marsh)	- Shallow	- -	- -	- -
	Community Proportion (% of total)	90			
	Dominant Vegetation / Cover Class	Pond lily cattail Milfoil other submergents			
	Invasive/exotic Vegetation / Cover Class	H			
	Community Quality (E, H, M, L)	- 0	0	0	0
Plant Community #3	Community Type (wet meadow, marsh)	- -	- -	- -	- -
	Community Proportion (% of total)				
	Dominant Vegetation / Cover Class				
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	0	0	0	0
Plant Community #4*	Community Type (wet meadow, marsh)	- -	- -	- -	- -
	Community Proportion (% of total)				
	Dominant Vegetation / Cover Class				
	Invasive/exotic Vegetation / Cover Class				
	Community Quality (E, H, M, L)	- 0	0	0	0
	Circular 39 Types (primary <TAB> others)				
	Cowardin Types				
	Photo ID				
Highest rated community veg. div./integ:		0.0 -	0 -	0 -	0 -
Average vegetative diversity/integrity:		- -	- -	- -	- -
Weighted Average veg. diversity/integrity:		0.00 -	0.00 -	0.00 -	0.00 -
#4	Listed, rare, special plant species?	n Y (N)	Y N	Y N	Y N
#5	Rare community or habitat?	n Y (N)	Y N	Y N	Y N
#6	Pre-European-settlement conditions?	n Y (N)	Y N	Y N	Y N

Floodplain Forest [1A, 2A, 3A] * Hardwood Swamp [3B] * Coniferous Bog [2A, 4B] * Coniferous Swamp [4B] * Open Bog [1B, 5A, 5B, 6A, 7A, 9A, 10A] * Calcareous Fen [7B, 11B, 14A] * Shrub Swamp [6B] * Alder Thicket [8A] * Shrub-carr [8B] * Sedge Meadow [10B, 11A, 12A, 13A] * Shallow Marsh [13B] * Deep Marsh [12B] * Wet to Wet-Mesic Prairie [14B, 15A] * Fresh (Wet) Meadow [15B] * Shallow, Open Water [9B, 16A] * Seasonally Flooded Basin [16B]

Cover Class	Class Range
1	0 - 3%
2	3 - 10%
3	10 - 25%
4	25 - 50%
5	50 - 75%
6	75 - 100%

*If there are more than four plant community types, use the next column over to enter the rest and do not rely on the automatic average calculations.

T122N R26W NW¼SW¼SW¼ Sec 7

Italic questions are answered via GIS analyses or other methods in-office

MnRAM #	Question Description	Wet ID Fish Cr. — Rating	Wet ID _____ — Rating	Wet ID _____ — Rating	Wet ID _____ — Rating
	Date: 5/11/06				
7	Hydrogeomorphology and Topography (circle one)	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, (Riverine), Lacustrine, Peatland, Floodplain, Slope, Other	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other	Depressional/Isolated, Depress'l/Flow-through, Depress'l/Tributary, Riverine, Lacustrine, Peatland, Floodplain, Slope, Other
8	**Maximum Water Depth** (inches) : **% inundation**	41 : 80	:	:	:
9	*Local Watershed Area--immediate drainage (acres)*	9,112 ac.			
10	**Estimated size of existing wetland (acres)**	22			
11	*SOILS: Upland/Wetland (survey classification + site)*	Hamra			
12	**Outlet characteristics for flood retention**	A B C (N/A)	A B C N/A	A B C N/A	A B C N/A
13	Outlet characteristics for hydrologic regime	A B (C) N/A	A B C N/A	A B C N/A	A B C N/A
14	***Dominant upland land use (within 500 ft)***	A (B) C	A B C	A B C	A B C
15	Soil condition (wetland)	(A) B C	A B C	A B C	A B C
16	**Vegetation (% cover)**	10 %	____ %	____ %	____ %
17	Emerg. veg. flood resistance	A B (C) N/A	A B C N/A	A B C N/A	A B C N/A
18	**Sediment delivery**	(A) B C	A B C	A B C	A B C
19	*Upland soils (based on soil group)*	A (B) C	A B C	A B C	A B C
20	**Stormwater runoff pretreatment & detention**	A B (C)	A B C	A B C	A B C
21	*Subwatershed wetland density*	A (B) C	A B C	A B C	A B C
22	**Channels/sheet flow**	A B (C)	A B C	A B C	A B C
23	Upland naturalized buffer, average width (feet)	40 feet	____ feet	____ feet	____ feet
24	**Upland area management** (to 50 ft.) (% of each, minimum 20%)	Full Manicured Bare. % 70 % % 30	Full Manicured Bare. % % %	Full Manicured Bare. % % %	Full Manicured Bare. % % %
25	Upland area diversity and structure (to 50 ft.) (% percent of each)	Native Mixed Sparse % 70% 30 %	Native Mixed Sparse % % %	Native Mixed Sparse % % %	Native Mixed Sparse % % %
26	**Upland area slope** (to 50 ft.) (% in each category)	Gentle Moderate Steep .10% 30% 10%	Gentle Moderate Steep . % % %	Gentle Moderate Steep % % %	Gentle Moderate Steep . % % %
27	*Downstream sensitivity/WQ protection*	(A) B C	A B C	A B C	A B C
28	**Nutrient loading**	A (B) C	A B C	A B C	A B C
29	Shoreline wetland:	Y (N)	Y N	Y N	Y N
30	**Shoreline - rooted vegetation (% cover)**	%	____ %	____ %	____ %
31	Shoreline - wetland in-water width (in feet, average)	ft	____ ft	____ ft	____ ft
32	**Shoreline - emergent veg. erosion resistance**	A B C	A B C	A B C	A B C
33	Shoreline - erosion potential	A B C	A B C	A B C	A B C
34	**Shoreline - bank protection/upslope veg.**	A B C	A B C	A B C	A B C
35	*Rare Wildlife*	Y (N)	Y N	Y N	Y N
36	***Scare/Rare/S1/S2 local community***	Y (N)	Y N	Y N	Y N
37	Vegetation interspersion cover (see diagram 1)	1 2 3 4 5 6 7 8 (N/A)	1 2 3 4 5 6 7 8 N/A	1 2 3 4 5 6 7 8 N/A	1 2 3 4 5 6 7 8 N/A
38	**Veg. community interspersion (see diagram 2)**	(1) 2 3 N/A	1 2 3 N/A	1 2 3 N/A	1 2 3 N/A
39	Wetland detritus	A B C (N/A)	A B C N/A	A B C N/A	A B C N/A
40	***Wetland interspersion on landscape***	(A) B C	A B C	A B C	A B C
41	Wildlife barriers	A B (C)	A B C	A B C	A B C
42	**Amph. breeding potential - hydroperiod**	Adequate / Inadequate	Adequate / Inadequate	Adequate / Inadequate	Adequate / Inadequate
43	Amphibian breeding potential - fish presence	A B (C)	A B C	A B C	A B C
44	**Amphibian & reptile overwintering habitat**	A (B) C N/A	A B C N/A	A B C N/A	A B C N/A
45	Wildlife species (list)				
46	**Fish habitat quality**	E (A) B C N/A	E A B C N/A	E A B C N/A	E A B C N/A
47	Fish species (list)				
48	**Unique/rare educ./cultural/rec. opportunity**	Y (N)	Y N	Y N	Y N
49	Wetland visibility	(A) B C	A B C	A B C	A B C
50	**Proximity to population**	(Y) N	Y N	Y N	Y N
51	Public ownership	A B (C)	A B C	A B C	A B C
52	**Public access**	A (B) C	A B C	A B C	A B C
53	Human influence on wetland	A B (C)	A B C	A B C	A B C
54	**Human influence on viewshed**	A B (C)	A B C	A B C	A B C
55	Spatial buffer	A (B) C	A B C	A B C	A B C
56	**Recreational activity potential**	A (B) C	A B C	A B C	A B C
57	Commercial crop--hydrologic impact	A B C (N/A)	A B C N/A	A B C N/A	A B C N/A
58	***GW - Wetland soils***	(R) D	R D	R D	R D
59	*GW - Subwatershed land use*	(R) D	R D	R D	R D
60	***GW - Wetland size and soil group***	R (D)	R D	R D	R D
61	GW - Wetland hydroperiod	R (D)	R D	R D	R D
62	**GW - Inlet/Outlet configuration**	R (D)	R D	R D	R D
63	GW - Surrounding upland topographic relief	R (D)	R D	R D	R D
64	**Restoration potential w/o flooding**	Y (N)	Y N	Y N	Y N
65	*Landowners affected by restoration*	all public 1 2 3+	all public 1 2 3+	all public 1 2 3+	all public 1 2 3+
66 A	***Existing wetland size (acres) [same as #10]***	____ acres	____ acres	____ acres	____ acres
66 B	Total wetland restoration size (acres)	____ acres	____ acres	____ acres	____ acres
66 C	**Potential new wetland area (acres)=B-A**	____ acres	____ acres	____ acres	____ acres
67	Average width of naturalized upland buffer (potential)	____ feet	____ feet	____ feet	____ feet
68	**Ease of potential restoration**	A B C	A B C	A B C	A B C
69	Hydrologic alteration type	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling	Outlet, Tile, Ditch, GW pump, Wtrshd div., Filling
70	**Potential wetland type (Circ. 39)**	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7, 8
71	Wetland sensitivity to stormwater	E A (B) C	E A B C	E A B C	E A B C
72	**Additional stormwater treatment needs**	(A) B C	A B C	A B C	A B C