

## WETLAND DATA AND SCORING RECORD

- i} WETLAND NAME: White L.-Lowney L. Complex - W183840050180021
- ii} MNR ADMINSTRATIVE REGION: 62 DISTRICT: 60
- iii} AREA OFFICE {if different from District}:  
CONSERVATION AUTHORITY JURISDICTION: none
- {If not within a designated CA, check here:} \_\_\_\_\_

iv}

COUNTY OR REGIONAL MUNICIPALITY	
Code	County or Regional Municipality Name
09000	LANARK CO

v}

TOWNSHIP	
Code	Township Name
005320	DARLING
016240	PAKENHAM

vi}

LOTS AND CONCESSIONS			
Lots	Concessions	Lots	Concessions
19-22	11	19-24	12
21-25	1	23-26	2
23-26	3		

{Attach separate sheet if necessary}

vi} MAPS AND AIR PHOTO REFERENCES

a) Latitude 45:19:00 Longitude: 76:29:00

b) UTM grid reference: Zone: 18 Block: UF  
 Grid: E 840 N 180  
 Accuracy: 2 Datum: 1

UTM Centroid Coordinates: 1838400501800

## c) National Topographic Series:

Map Name	Map Number	Edition	Scale
Arnprior	31 F/8	7	1:50000

(Attach separate sheet if necessary)

## d) Aerial photographs:

Date Photo Taken	Flight #	Plate #	Reference #	Scale
0				

(Attach separate sheet if necessary)

## e) Ontario Base Map:

Map Number	Scale
380050100	1:10000
380050150	1:10000
380050200	1:10000
385050150	1:10000
385050200	1:10000

(Attach separate sheet if necessary)

viii} WETLAND SIZE AND BOUNDARIES

- a) Single contiguous wetland area (Y or N):
- N

Wetland Unit Number	Size of each Wetland Unit
Wetland Unit No. 1	594.7
Wetland Unit No. 2	16.6
Wetland Unit No. 3	3.9
Wetland Unit No. 4	7.0

(Attach separate sheet if necessary)

Total Wetland Size 622.2 ha

- b) Brief documentation of reasons for including any areas less than 0.5 ha in size:

29 areas are less than 0.5 ha excluding bog communities. Fieldwork will be necessary to determine if these areas are specialized habitats or if they should be combined with adjacent communities.

Investigators	Affiliation
Bruce Brown & Jeff McNaughton	OMNR Carleton Place 1985 data
Bruce Brown & Louis L'Arrivee	OMNR Carleton Place 1986 data
Vivian R. Brownell	Consultant 1999 desktop update

Dates Wetland Visited		
25/07/85	29/07/85	12/09/85
15/08/86		

Date This Evaluation Completed: 20/12/99

Estimated Time Devoted to Completing the Field Survey in "PERSON HOURS"

17.5

Weather Conditions: Summer Conditions in General

OTHER POTENTIALLY USEFUL INFORMATION:

This wetland complex is part of the White Lake Wetlands Provincially Significant ANSI (see Brunton 1990).

CHECKLIST OF PLANT AND ANIMAL SPECIES RECORDED IN THE WETLAND:

Attach a list of all flora and fauna observed in the wetland

\*Indicate if voucher specimens or photos have been obtained, where located, etc.

## 1.0 BIOLOGICAL COMPONENT

## 1.2.2. VEGETATION COMMUNITIES

Community Code	Community Area	Open Water Area	Dominant Form
M6	1.4	0.0	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
W14	26.8	26.8	su
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
M7	78.8	0.0	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
M10	7.9	1.8	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
M5	1.4	0.4	ne

## Vegetation Forms (Select Vegetation Forms Present)

c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
S20	17.8	0.0	ts

## Vegetation Forms (Select Vegetation Forms Present)

c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
M4	1.3	0.6	ne

## Vegetation Forms (Select Vegetation Forms Present)

c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
W13	0.6	0.6	su

## Vegetation Forms (Select Vegetation Forms Present)

c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
M8	0.4	0.1	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
W15	287.3	287.3	u
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
F4	12.0	0.0	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
F1	29.7	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
B2	1.7	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
B3	0.3	0.0	ls
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
B4	0.8	0.0	ne
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
B1	1.5	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u



## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
S8	0.2	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	X	h	dc
ts	X	ls	ds
m		ne	be
ff		f	su
			dh
			gc
			re
			u

Community Code	Community Area	Open Water Area	Dominant Form
S21	3.5	0.0	ts
Vegetation Forms (Select Vegetation Forms Present)			
c		h	dc
ts	X	ls	ds
m		ne	be
ff		f	su
			dh
			gc
			re
			u

Community Code	Community Area	Open Water Area	Dominant Form
S5	0.3	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	X	h	dc
ts		ls	ds
m		ne	be
ff		f	su
			dh
			gc
			re
			u

Community Code	Community Area	Open Water Area	Dominant Form
S15	7.4	0.0	dc
Vegetation Forms (Select Vegetation Forms Present)			
c		h	dc
ts		ls	ds
m		ne	be
ff		f	su
			dh
			gc
			re
			u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form		
S2	9.4	0.0	c		
Vegetation Forms (Select Vegetation Forms Present)					
c	X	h	dc	X	dh
ts		ls	ds		gc
m		ne	be		re
ff		f	su		u

Community Code	Community Area	Open Water Area	Dominant Form			
S11	13.1	0.0	dc			
Vegetation Forms (Select Vegetation Forms Present)						
c	X	h	dc	X	dh	—
ts	—	ls	ds	—	gc	—
m	—	ne	be	—	re	—
ff	—	f	su	—	u	—

Community Code	Community Area	Open Water Area	Dominant Form
S17	0.8	0.0	h
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form			
S12	31.3	0.0	dc			
Vegetation Forms (Select Vegetation Forms Present)						
c	X	h	dc	X	dh	—
ts	X	ls	ds	—	gc	—
m	—	ne	be	—	re	X
ff	—	f	su	—	u	—

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
S19	2.2	0.0	ts
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
S9	1.1	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
S18	0.7	0.0	ls
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
S1	0.4	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
W12	3.9	2.9	su
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
W1	9.0	6.8	f
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
S14	5.6	0.0	dc
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form
S6	0.9	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form			
S16	43.2	0.0	h			
Vegetation Forms (Select Vegetation Forms Present)						
c	X	h	dc	X	dh	—
ts	X	ls	ds	—	gc	—
m	—	ne	be	—	re	—
ff	—	f	su	—	u	—

Community Code	Community Area	Open Water Area	Dominant Form
S3	0.6	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	X	h	dc
ts	—	ls	ds
m	—	ne	be
ff	—	f	su
	—	—	dh
	—	—	gc
	—	—	re
	—	—	u

Community Code	Community Area	Open Water Area	Dominant Form
M3	1.8	0.0	ne
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u

Community Code	Community Area	Open Water Area	Dominant Form	
S7	15.1	0.0	c	
Vegetation Forms (Select Vegetation Forms Present)				
c	X	h	dc	dh
ts		ls	ds	gc
m	X	ne	be	re
ff		f	su	u

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
W2	0.7	0.0	f
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u
		X	

Community Code	Community Area	Open Water Area	Dominant Form
M9	1.8	0.0	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u
		X	

Community Code	Community Area	Open Water Area	Dominant Form
M11	1.8	0.0	re
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u
		X	

Community Code	Community Area	Open Water Area	Dominant Form
F3	5.3	0.0	ne
Vegetation Forms (Select Vegetation Forms Present)			
c	h	dc	dh
ts	ls	ds	gc
m	ne	be	re
ff	f	su	u
		X	

## 1.2.2. VEGETATION COMMUNITIES (Continued)

Community Code	Community Area	Open Water Area	Dominant Form
F2	10.8	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	<u>X</u>	h	dc
ts	<u>X</u>	ls	ds
m	<u>X</u>	ne	be
ff	<u>  </u>	f	su
	<u>  </u>		dh
	<u>  </u>		gc
	<u>  </u>		re
	<u>  </u>		u

Community Code	Community Area	Open Water Area	Dominant Form
S10	0.7	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	<u>X</u>	h	dc
ts	<u>X</u>	ls	ds
m	<u>  </u>	ne	be
ff	<u>  </u>	f	su
	<u>  </u>		dh
	<u>  </u>		gc
	<u>  </u>		re
	<u>  </u>		u

Community Code	Community Area	Open Water Area	Dominant Form
S13	1.7	0.0	dc
Vegetation Forms (Select Vegetation Forms Present)			
c	<u>  </u>	h	dc
ts	<u>X</u>	ls	ds
m	<u>  </u>	ne	be
ff	<u>  </u>	f	su
	<u>  </u>		dh
	<u>  </u>		gc
	<u>  </u>		re
	<u>  </u>		u

Community Code	Community Area	Open Water Area	Dominant Form
S4	9.0	0.0	c
Vegetation Forms (Select Vegetation Forms Present)			
c	<u>X</u>	h	dc
ts	<u>X</u>	ls	ds
m	<u>X</u>	ne	be
ff	<u>  </u>	f	su
	<u>  </u>		dh
	<u>  </u>		gc
	<u>  </u>		re
	<u>  </u>		u

1.2.2. VEGETATION COMMUNITIES

Attach a separate sheet listing community (map) codes, vegetation forms and dominant species. Use the form on the following page to record percent area by dominant vegetation form. This information will be used in other parts of the evaluation.

Communities should be grouped by number of forms. For example, 2 form communities might appear as follows:

2 formsCode   Forms   Dominant Species

M6   re, ff   re, Typha latifolia; ff, Lemna minor, Wolffia

S1   ts, gc   ts, Salix discolor; gc, Impatiens capensis, Thelypteris palustr

Note that the dominant species for each form are separated by a semicolon. The dominant species (maximum of 2) within a form are separated by commas.

## Scoring:

Total # of communities with 1-3 forms	Total # of communities with 4-5 forms	Total # of communities with 6 or more forms
1 = 1.5 points	1 = 2 points	1 = 3 points
2 = 2.5	2 = 3.5	2 = 5
3 = 3.5	3 = 5	3 = 7
4 = 4.5	4 = 6.5	4 = 9
5 = 5	5 = 7.5	5 = 10.5
6 = 5.5	6 = 8.5	6 = 12
7 = 6	7 = 9.5	7 = 13.5
8 = 6.5	8 = 10.5	8 = 15
9 = 7	9 = 11.5	9 = 16.5
10 = 7.5	10 = 12.5	10 = 18
11 = 8	11 = 13	11 = 19
+ .5 each additional community = <u>18.5</u>	+ .5 each additional community = <u>13.5</u>	+1 each additional community = <u>0</u>
eg., a wetland with 3 or more form communities, 4 two form communities, 12 four form communities and 8 six form communities would score:		
	6 + 13.5 + 15 = 34.5 = 35 points	
	Vegetation Communities Score (maximum 45 points) <u>32</u>	



## 1.0 BIOLOGICAL COMPONENT

## 1.1 PRODUCTIVITY

## 1.1.1 GROWING DEGREE-DAYS/SOILS

GROWING DEGREE DAYS  
(check one)

☐ <1600  
☐ 1600 - 2000  
☐ 2000 - 2400  
☐ 2400 - 2800  
☐ 2800 - 3000  
☒ >3000

## SOILS

## Estimated Fractional Area

☐ 0.004 clay/loam  
☐ 0.089 silt/marl  
☐ limestone  
☐ sand  
☐ 0.901 humic/mesic  
☐ 0.007 fibric  
☐ granite

## SCORING:

Growing Degree-Days	Clay-Loam	Silt-Marl	Lime-Stone	Sand	Humic-Mesic	Fibric	Granite
<1600	12	11	9	7	7	6	4
1600-2000	15	13	11	9	8	7	5
2000-2400	18	15	13	11	9	8	7
2400-2800	22	18	15	13	11	9	7
2800-3000	26	21	18	15	13	10	8
>3000	30	25	20	18	15	12	9

(maximum score 30; if wetland contains more than one soil type, evaluate based on the fractional area)

Steps required for evaluation: (maximum score 30 points)

1. Select GDD line in evaluation table applicable to your wetland;
2. Determine fractional area of the wetland for each soil type;
3. Multiply fractional area of each soil type by score;
4. Sum individual soil type scores (round to nearest whole number).

In wetland complexes the evaluator should aim at determining the percentage of area occupied by the categories for the complex as a whole.

Final Score Growing Degree-Days/Soils (maximum 30 points) 16

1.1.2 WETLAND TYPE (Fractional Area=area of wetland type/total wetland area)

Fractional Area	Score
Bog	x 3 = 0.0
Fen	x 6 = 0.5
Swamp	x 8 = 2.0
Marsh	x 15 = 9.8

Wetland Type Score (maximum 15 points) 12

1.1.3 SITE TYPE (Fractional Area=area of wetland type/total wetland area)

	Fractional Area	Score
isolated		x 1 =
palustrine (permanent or		
intermittent flow)	0.179	x 2 = 0.4
riverine		x 4 =
riverine (at rivermouth)		x 5 =
lacustrine (at rivermouth)	0.001	x 5 =
lacustrine (on enclosed		
bay, with barrier stacks)		x 3 =
lacustrine (exposed to lake)	0.820	x 2 = 1.6

Site Type Score (maximum 5 points) 2

1.2 BIODIVERSITY

1.2.1 NUMBER OF WETLAND TYPES

(check one) Score (Choose one only)

one	9 points
two	13
three	20
four	30
X	

Number of Wetland Types Score (Maximum 30 points) 30

### 1.2.3 DIVERSITY OF SURROUNDING HABITAT (check all appropriate items)

<input checked="" type="checkbox"/>	recent burn (< 5yr)
<input checked="" type="checkbox"/>	abandoned agricultural land
<input checked="" type="checkbox"/>	utility corridor
<input checked="" type="checkbox"/>	deciduous forest
<input checked="" type="checkbox"/>	recent cutover or clearcut
<input checked="" type="checkbox"/>	coniferous forest
<input checked="" type="checkbox"/>	mixed forest (at least 25% conifer and 75% deciduous or vica versa)
<input type="checkbox"/>	crops
<input type="checkbox"/>	abandoned pits and quarries
<input checked="" type="checkbox"/>	pasture
<input checked="" type="checkbox"/>	ravine
<input checked="" type="checkbox"/>	fence rows
<input checked="" type="checkbox"/>	open lake or deep river
<input checked="" type="checkbox"/>	creek flood plain
<input checked="" type="checkbox"/>	rock outcrop

Diversity of Surrounding Habitat Score (1 for each, maximum 7 points) 7

### 1.2.4 PROXIMITY TO OTHER WETLANDS (check first appropriate category only)

	Scoring
1) <input checked="" type="checkbox"/> Hydrologically connected by surface water to other wetlands (different dominant wetland type), or to open lake or deep river within 1.5 km.	8 points
2) <input type="checkbox"/> Hydrologically connected by surface water to other wetlands (same dominant wetland type) within 0.5km	8
3) <input type="checkbox"/> Hydrologically connected by surface water to other wetlands (different dominant wetland type), or to open lake or deep river from 1.5 to 4 km away	5
4) <input type="checkbox"/> Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5km to 1.5km away	5
5) <input type="checkbox"/> Within 0.75 km of other wetlands (different dominant wetland type) or open water body, but not hydrologically connected by surface water	5
6) <input type="checkbox"/> Within 1km of other wetlands, but not hydrologically connected by surface water	2
7) <input type="checkbox"/> No wetland within 1km	0
Proximity to other Wetland Score (Choose 1 only, maximum 8 points)	<u>8</u>

1.2.5 INTERSPERSION

Number of Intersections (Check one)	Score
1) 26 or less	3
2) 27 to 40	6
3) 41 to 60	9
4) 61 to 80	12
5) 81 to 100	15
6) 101 to 125	18
7) 126 to 150	21
8) 151 to 175	24
9) 176 to 200	27
10) >200	30

Interspersion Score (Choose one only, maximum 30 points) 271.2.6 OPEN WATER TYPES

Permanently flooded: (Check one)	Score
1) type 1	8
2) type 2	8
3) type 3	14
4) type 4	20
5) type 5	30
6) type 6	8
7) type 7	14
8) type 8	3
9) no open water	0

Open Water Type Score (Choose one only, maximum 30 points) 20

## 1.3 SIZE

652.0 hectares

Size score (Biological Component)(maximum 50 points) 50

Evaluation Table Size Score (Biological component)

Wetland size (ha)	Total Score for Biodiversity Subcomponent									
	<37	37-48	49-60	61-72	73-84	85-96	97-108	109-120	121-132	>132
<21 ha	1	5	7	8	9	17	25	34	43	50
21-40	5	7	8	9	10	19	28	37	46	50
41-60	6	8	9	10	11	21	31	40	49	50
61-80	7	9	10	11	13	23	34	43	50	50
81-100	8	10	11	13	15	25	37	46	50	50
101-120	9	11	13	15	18	28	40	49	50	50
121-140	10	13	15	17	21	31	43	50	50	50
141-160	11	15	17	19	23	34	46	50	50	50
161-180	13	17	19	21	25	37	49	50	50	50
181-200	15	19	21	23	28	40	50	50	50	50
201-400	17	21	23	25	31	43	50	50	50	50
410-600	19	23	25	28	34	46	50	50	50	50
601-800	21	25	28	31	37	49	50	50	50	50
801-1000	23	28	31	34	40	50	50	50	50	50
1001-1200	25	31	34	37	43	50	50	50	50	50
1201-1400	28	34	37	40	46	50	50	50	50	50
1401-1600	31	37	40	43	49	50	50	50	50	50
1601-1800	34	40	43	46	50	50	50	50	50	50
1801-2000	37	43	47	49	50	50	50	50	50	50
>2000	40	46	50	50	50	50	50	50	50	50

2.0 SOCIAL COMPONENT2.1 ECONOMICALLY VALUABLE PRODUCTS2.1.1 WOOD PRODUCTS

Area of wetland forested (ha), i.e. dominant form is h or c. Note that this is not wetland size. (Check one only)

1) _____	<5 ha	Score
2) _____	5-25 ha	0
3) _____	26-50 ha	4
4) _____	51-100 ha	6
5) <u>X</u> _____	101-200 ha	8
6) _____	>200 ha	11
		14

Wood Products Score (Score one only, maximum 18 points) 11

2.1.2 LOW BUSH CRANBERRYS

(Check one)  
Present  
Absent

1) \_\_\_\_\_  
2) X \_\_\_\_\_

Score (Choose one)  
2 point  
0

Source of information: unknown

Low Bush Cranberry Score (maximum 2 points) 0

2.1.3 WILD RICE

(Check one)  
Present (minimum size 0.5 ha)  
Absent

1) X \_\_\_\_\_  
2) \_\_\_\_\_

Score (Choose one)  
10 points  
0

Source of information: field obs., dominant species

Wild Rice Score (maximum 10 points) 10

2.1.4 COMMERCIAL FISH (BAIT FISH AND/OR COARSE FISH)

(Check one)  
Present  
Habitat not suitable for fish

1) X \_\_\_\_\_  
2) \_\_\_\_\_

Score (Choose one)  
12 points  
0

Source of information: MNR, Morris Stewart baitfish dealer

Commercial Fish Score (maximum 12 points) 12

### 2.1.5 FURBEARERS (Consult Appendix 9)

Name of Furbearer	Source of Information
Muskrat	field obs., local trapper
Raccoon	field obs., local trapper
Beaver	field obs., local trapper
Red Fox	field obs.

Scoring: 3 points for each species, maximum 12

Furbearer Score (maximum 12 points) 12

### 2.2 RECREATIONAL ACTIVITIES

Type of Wetland-Associated Use			
Intensity of Use	Hunting	Nature Enjoyment/ Ecosystem Study	Fishing
High	< <u>40 points</u> >	40 points	40 points
Moderate	20	20	< <u>20</u> >
Low	8	8	8
Not possible/not known	0	< <u>0</u> >	0

(score one level for each of the three wetland uses; scores are cumulative; maximum score 80 points)

Sources of information:

Hunting: MNR COS duck blinds on White Lake

Nature: Ottawa Field Naturalists

Fishing: MNR Creel reports, field obs.

Recreational Activities Score (maximum 80 points) 60

2.3 LANDSCAPE AESTHETICS2.3.1 DISTINCTNESS

(Check one)

Clearly Distinct

1) X

Indistinct

2)       Score (Choose one)  
3 points  
0Landscape Distinctness Score (maximum 3 points) 32.3.2 ABSENCE OF HUMAN DISTURBANCE

(Check one)

Human disturbances absent or nearly so

1)       

One or several localized disturbances

2) X

Moderate disturbance; localized water pollution

3)       

Wetland intact but impairment of ecosystem

2

quality intense in some areas

4)       

Extreme ecological degradation, or water

1

pollution severe and widespread

5)       

0

Score (Choose one)  
7 points  
4

Source of information: data record for White Lake

Absence of Human Disturbance Score (maximum 7 points) 42.4 EDUCATION AND PUBLIC AWARENESS2.4.1 EDUCATIONAL USES

(Check one)

Frequent

1)       

Infrequent

2)       

No visits

3) XScore (Choose one)  
20 point  
12  
0

Source of information: data records

Educational Uses Score (maximum 20 points) 02.4.2 FACILITIES AND PROGRAMS

(Check one)

Staffed interpretation centre with shelters trails, literature

1)       

8 points

No interpretation centre or staff, but a system of self-guiding trails and observation points or brochures available

2)       

4

Maintained boardwalk or path (eg. woodchips

3)       

2

but no brochures or interpretation.

4) X

0

Score (Choose one)

Source of information: data records

Facilities and Programs Score (maximum 8 points) 0



2.4.3 RESEARCH AND STUDIES

(Check appropriate spaces)

Long term research has been done  
 Research papers published in refereed  
     scientific journal or as a thesis  
 One or more (non-research) reports have  
     been written on some aspect of the  
     wetland's flora, fauna, hydrology, etc.  
 No research or reports

Score  
12 points  
1) \_\_\_\_\_  
2) X \_\_\_\_\_  
3) \_\_\_\_\_  
4) \_\_\_\_\_  
5  
0

Attach list of known reports by above categories

Research and Studies Score (Score is cumulative, maximum 12 points) 10

2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT

Circle the highest applicable score

Distance of wetland from settlement	population >10,000	population 2,500-10,000	population <2,500 or cott. comm.
Within or adjoining settlement	40 points	26	<16>
0.5 to 10km from settlement	26	16	10
10 to 60km from settlement	12	8	4
>60km from settlement	5	2	0
>100km from settlement	0	0	0

Proximity to Human Settlement Score (maximum 40 points) 16

2.6 OWNERSHIP (FA = fractional area)

Fractional  
Area                      Score

FA of wetland in public or private ownership,  
held under contract or in trust for wetland  
protection

0.786 x 10 = 7.9

FA of wetland area in public ownership, not  
as above

\_\_\_\_\_ x 8 = 0.0

FA of wetland area in private ownership, not  
as above

0.214 x 4 = 0.8

Source of information: MNR Land Use Maps

Ownership Score (maximum 10 points) 9

2.7 SIZE 652.0 hectares  
 Evaluation Table for Size Score (Social Component)

Wetland size (ha)	Total for Size Dependent Score									
	<37	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136-150	>150
<2 ha	1	2	4	8	10	12	14	14	14	15
2-4	1	2	4	8	12	13	14	14	15	16
5-8	2	2	5	9	13	14	15	15	16	16
9-12	3	3	6	10	14	15	15	16	17	17
13-17	3	4	7	10	14	15	16	16	17	17
18-28	4	5	8	11	15	16	16	17	17	18
29-37	5	7	10	13	16	17	18	18	19	19
38-49	5	7	10	13	16	17	18	18	19	20
50-62	5	8	11	14	17	17	19	19	20	20
63-81	5	8	11	15	17	18	19	20	20	20
82-105	6	9	11	15	18	18	20	20	20	20
106-137	6	9	12	16	18	19	20	20	20	20
138-178	6	9	13	16	18	19	20	20	20	20
179-233	6	9	13	16	18	20	20	20	20	20
234-302	7	9	13	16	18	20	20	20	20	20
303-393	7	9	14	17	18	20	20	20	20	20
394-511	7	10	14	17	18	20	20	20	20	20
512-665	7	10	14	17	18	20	20	20	20	20
666-863	7	10	14	17	19	20	20	20	20	20
864-1123	8	12	15	17	19	20	20	20	20	20
1124-1460	8	12	15	17	19	20	20	20	20	20
1461-1898	8	13	15	18	19	20	20	20	20	20
1899-2467	8	14	16	18	20	20	20	20	20	20
>2467	8	14	16	18	20	20	20	20	20	20

Total Size Score (Social Component) 20

2.8 ABORIGINAL AND CULTURAL VALUES

Either or both Aboriginal or Cultural Values may be scored. However, the maximum score permitted for 2.8 is 30 points. Attach documentation.

2.8.1 ABORIGINAL VALUES

Full documentation of sources must be attached to the data record.

1) <u>          </u>	Significant	=	30 points
2) <u>          </u>	Not Significant	=	0
3) <u>  X  </u>	Unknown	=	0

2.8.2 CULTURAL HERITAGE

1) <u>          </u>	Significant	=	30 points
2) <u>          </u>	Not Significant	=	0
3) <u>  X  </u>	Unknown	=	0

Aboriginal Values/Cultural Heritage Score (maximum 30 points)   0

## 3.0 HYDROLOGICAL COMPONENT

## 3.1 FLOOD ATTENUATION

If the wetland is a complex including isolated wetlands, apportion the 100 points according to area. For example, if 10 ha of a complex, the isolated portion receives the maximum proportional score of 10. The remainder of the wetland is then evaluated out of 90.

Step 1: Determination of Maximum Score

- |            |  |
|------------|--|
| <u>No</u>  | Wetland is entirely isolated (i.e. not part of a complex)<br>(Go to Step 4)  |
| <u>No</u>  | Wetland is lacustrine and the ratio of wetland area:lake area<br>is >0.1, or wetland is riverine on the St. Mary's River, go<br>to Step 5. |
| <u>Yes</u> | All other types (Go through Steps 2, 3 and 4c)   |

Step 2: Determination of Upstream Detention Factor (DF)

- |     |   |              |
|-----|---|--------------|
| (a) | Wetland area (ha) (Non Isolated)  | 652.0        |
| (b) | Total area (ha) of upstream detention areas<br>(include the wetland itself) | <u>800.0</u> |
| (c) | Ratio of (a):(b)  | 0.815        |
| (d) | Upstream detention factor: (c) x 2 =<br>(maximum allowable factor = 1)      | <u>1.000</u> |

Step 3: Determination of Wetland Attenuation Factor (AF)

- |     |  |                |
|-----|--|----------------|
| (a) | Wetland area (ha) (Non Isolated)   | 652.0          |
| (b) | Size of catchment basin (ha) <u>upstream</u> of wetland<br>(include the wetland itself in <u>catchment</u> area) | <u>1,500.0</u> |
| (c) | Ratio of (a):(b)   | 0.435          |
| (d) | Wetland Attenuation factor: (c) x 10 =<br>(maximum allowable factor = 1)   | <u>1.000</u>   |

Step 4: Determination of Wetland Surface Form Factor (FF)

From the list below, select the surface from which best describes the wetland.

- |  |   |     |
|--|---|-----|
| Flooded with little or no aquatic vegetation                 | X | 0   |
| Flooded but with submergent, emergent or floating vegetation |   | 0.2 |
| Flat (lawn) vegetation (typical of fens)                     |   | 0.5 |
| Hummock-depression microtopography                           |   | 0.7 |
| Patterned (e.g., string bog, ribbed fen)                     |   | 1.0 |

Surface Form Factor (FF) (maximum factor = 1) 0

Step 5: Calculation of Final Score

1. Wetlands entirely isolated
2. Wetlands is lacustrine and the ratio of wetland area:lake area is > 0.1
3. Wetland is riverine along the St. Mary's River
4. All other wetlands -- calculate as follows:

100  
0

## Initial Score

- Upstream detention factor (DF) (Step 2)  
 Wetland attenuation factor (AF) (Step 3)  
 Surface Form Factor (FF) (Step 4)  
 Final score:  $[(DF+AF+FF)/3] \times \text{initial score} =$

100  
1.000  
1.000  
0  
66.67

(\*) Unless wetland is a complex with isolated portions. See Above

Flood Attenuation Score (maximum 100 points) 67

3.2 GROUND WATER RECHARGE3.2.1 WETLAND SITE TYPE

Score

- a) Yes Wetland > 50% lacustrine (by area) or located on the St. Mary's River
- b) No Wetland not as above. Calculate final score as follows:  
 (FA=area of site type/total area of wetland)

0

FA of isolated or palustrine wetland  $\frac{\quad}{\quad} \times 50 = \frac{\quad}{\quad}$   
 FA of riverine wetland  $\frac{\quad}{\quad} \times 20 = \frac{\quad}{\quad}$   
 FA of lacustrine wetland (not dominant site type)  $\frac{\quad}{\quad} \times 0 = \frac{\quad}{\quad}$

Fractional Area

Ground Water Recharge, Wetland Site Type Component Score  
 (maximum 50 points)         

3.2.2 SOILSEVALUATION:

Dominant Wetland Type	Sand, loam, gravel, till	Clay or bedrock
1) Lacustrine/ on St. Mary's River	<0>	0
2) Isolated	10	5
3) Palustrine	7	4
4) Riverine(not St. Mary's River)	5	2

Hydrological Soil Class Score (maximum 10 points)

3.3 DOWNSTREAM WATER QUALITY IMPROVEMENT3.3.1 WATERSHED IMPROVEMENT FACTOR

Calculation of Watershed Improvement Score is based upon the fractional area (FA) of each site type within the wetland.

FA=area of site type/total area of wetland.

<u>Site Type</u>	<u>Area</u>	
FA of isolated wetland		x 0.5 =
FA of riverine wetland		x 1.0 =
FA of palustrine wetland with no inflow	0.178	x 0.7 =
FA of palustrine wetland with inflows		x 1.0 =
FA of lacustrine on lake shoreline	0.821	x 0.2 =
FA of lacustrine at lake inflow or outflow	0.001	x 1.0 =
Watershed Improvement Score (IFx30) (maximum 30)		9

3.3.2 ADJACENT AND WATERSHED LAND USEEVALUATION:

Step 1: Determination of Maximum Initial Score

No Wetland on the Great Lakes or St. Mary's River  
(Go to Step 5a)  
Yes All other wetlands (Go through Steps 2, 3, 4 and 5b)

Step 2: Determination of Broad Upslope Land Use Factor (BLU)  
Assess broad upslope land uses as logging within the previous 5 years, agriculture, or other activities which alter the natural vegetation cover in an extensive manner.

<u>Choose One</u>	<u>Factor</u>
> 50% of upslope area	1.0
20-50% of upslope area	0.7
1 -20% of upslope area	0.2

Score for BLU (20 points x BLU factor) 14

Step 3: Determination of Linear Upslope Land Uses (LUU)  
Assess linear upslope land uses (LUU) e.g., roads, railways, hydro corridors, pipelines, etc., crossing the upslope catchment within 200m of the wetland boundary.

<u>Choose the highest only</u>	<u>Factor</u>
Major corridor	1.0
Secondary corridor	0.7
Tertiary corridor	0.4
Temporary or abandoned	0.2
None	0

Score for LUU (15 points x LUU factor) 11

Step 4:      Determination of Point-source Land Uses (PS)

Assess point-source (PS) land uses producing industrial effluents such as heavy industry, pulp and paper plants, major aggregate operations (but not small pits use for local road construction), etc. Score as 'present' only if a point source land use is located less than 1 km upstream from the wetland

	<u>Score</u>
Present	1.0
Not Present	0 <u>X</u>

Score for PS (15 points x LLU factor)      0

Step 5:      Calculation of total score for Adjacent and Watershed Land Use

Score

- a) Wetland on Great Lakes or St. Mary's River      0  
 b) All other wetlands, calculate as follows:

Final Score (BLU x 20)+(LUU x 15)+(PS x 15)      25

3.3.3 VEGETATION FORM

Choose the category that best describes the vegetation of the wetland

Score

Trees, shrubs or herbs (c,h,ts,ls,gc)      8  
 Emergents, submergents (re,be,ne,su,ff,f)      10  
 Little or no vegetation (u,dh,dc,ds)      X      0

Dominant Vegetation Form Score (maximum 10)      0

3.4 CARBON SINK

- 1)      Wetland a bog, fen with > 50% organic soils      15 points  
 2)      Wetland has organic soils occupying 10 to 50% of the area (i.e. mainly mineral or undesignated soils, any wetland type)      6  
 3)      X      Marsh and swamps with > 50% organic soil      9  
 4)      Wetlands with less than 10% or soils organic      0

Carbon Sink Score (maximum 15 points)      9



## 3.5 SHORELINE EROSION CONTROL

Step 1: Score  
No Wetland entirely isolated or palustrine 0  
Yes Any part of the wetland riverine, or lacustrine  
 (proceed to Step 2)

## Step 2:

Choose any one characteristic that best describes the shoreline vegetation (see text for a definition of shoreline)

<u>X</u>	Trees and shrubs	Score
<u>      </u>	Emergent vegetation	15
<u>      </u>	Submergent vegetation	8
<u>      </u>	Other shoreline vegetation	6
<u>      </u>	No vegetation	3
<u>      </u>		0

Shoreline Erosion Control Score (maximum 15 points) 15

## 3.6 GROUNDWATER DISCHARGE

(Circle the characteristics that best describe the wetland being evaluated and then sum the scores.)

Category	Catchment Interaction		
Wetland Type	Bog=0	<Swamp/Marsh=2>	Fen=5
Basin Topography	Flat/rolling=0	<Hilly=2>	Steep=5
Wetland Area:Upslope Catchment Area	Large(>50%)=0	<Moderate(6-50%)=2>	Small(<5%)=5
Lagg Development	<None found=0>	Minor=2	Extensive=5
Seeps	<None=0>	= or <3 seeps = 2	>3 sites = 5
Iron precipitates	<None=0>	= or <3 sites = 2	>3 sites = 5
Surface marl deposits	<None=0>	= or <3 sites = 2	>3 sites = 5
Wetland pH	Low < 4.2=0	Mod 4.2-5.7=5	<High >5.7=10>
Catchement Soil coverage	Patch = 0	<Thin(<20cm) = 2>	Thick = 5
Catchement Soil permeability	Low = 0	<Moderate = 2>	High = 5

(Scores are cumulative, maximum 30 points)

Groundwater Discharge Score (maximum 30 points) 20



N. Ont. Wetland Evaluation, Data and Scoring Record  
4.0 SPECIAL FEATURES COMPONENT

January 31, 2000

4.1 RARITY  
4.1.1 WETLANDS

Site District : 5E-11  
Presence of wetland type (check one or more)  
X Bog X Swamp  
X Fen X Marsh

Score for rarity within the landscape and rarity of the wetland type. Score for rarity of wetland type is cumulative (maximum 80 points) based on presence or absence.

Unit Number	Site Region & District	Marsh	Swamp	Fen	Bog
2E	James Bay	20	20	0	20
2W	Big Trout Lake	20	20	0	10
3E	Lake Abitibi	20	20	10	0
3W	Lake Nipigon	20	20	10	0
3S	Lake St. Joseph	20	20	10	0
4E	Lake Temagami	20	20	10	0
4W	Pigeon River	20	10	20	0
4S	Wabigoon Lake	20	10	20	0
5E-1	Thessalon	10	0	30	20
5E-2	Gore Bay	20	0	20	20
5E-3	La Cloche	20	0	30	20
5E-4	Sudbury	10	0	30	10
5E-5	North Bay	10	0	20	0
5E-6	Tomiko	10	0	20	0
5E-7	Parry Sound	20	0	30	20
5E-8	Huntsville	20	0	30	20
5E-9	Algonquin Park	10	0	30	0
5E-10	Brent	20	0	30	0
5E-11	Bancroft	0	10	30	10
5E-12	Renfrew	0	0	30	10
5-S	Lake/the Woods	10	10	20	10

Rarity of Wetland Type Score (maximum 70 points) 50

4.1.2 SPECIES

4.1.2.1 BREADING HABITAT FOR AN ENDANGERED SPECIES

Name of Species	Source of Information

Attach documentation.

Scoring:  
For each species 250 points  
(score is cumulative, no maximum score)

Breeding Habitat for Endangered Species Score (no maximum) 0

4.1.2.2 TRADITIONAL MIGRATION OR FEEDING HABITAT FOR AN ENDANGERED SPECIES

Name of Species	Source of Information

Attach documentation.

Scoring:  
For One species 150 points  
For each additional Species 75  
(score is cumulative, no maximum score)

Traditional Habitat for Endangered Species Score (no maximum) 0

## 4.1.2.3 PROVINCIALY SIGNIFICANT ANIMAL SPECIES

Name of Species	Source of Information
Bog Buckmoth ( <i>Herileuca</i> sp 1)	Brunton (1990)

Attach Separate list if necessary; Attach documentation.

## Scoring:

Number of provincially significant animal species in the wetland:

One Species	= 50 points	14 species	= 154
2 Species	= 80	15 species	= 156
3 Species	= 95	16 species	= 158
4 Species	= 105	17 species	= 160
5 Species	= 115	18 species	= 162
6 Species	= 125	19 species	= 164
7 Species	= 130	20 species	= 166
8 Species	= 135	21 species	= 168
9 Species	= 140	22 species	= 170
10 Species	= 143	23 species	= 172
11 Species	= 146	24 species	= 174
12 Species	= 149	25 species	= 176
13 Species	= 152		

Add one point for every species past 25 (for example, 26 species=177 points, 27 species = 178 points, etc.)

(no maximum score)

Provincially Significant Animal Species Score (no maximum) 50

## 4.1.2.4 PROVINCIALY SIGNIFICANT PLANT SPECIES

(Scientific names must be recorded)

Name of Species	Scientific Name	Source of Information
RamsheadLady-slipper	Cypripedium arietinum	D. Cuddy & S. Thompson 1999
moss	Cinclidium stygium	Reddoch (1984); status in New
moss	Tomenthypnum falcifolium	Reddoch (1984); status in New

Attach Separate list if necessary; Attach documentation.

## Scoring:

Number of provincially significant animal species in the wetland:

One Species	= 50 points	14 species	= 154
2 Species	= 80	15 species	= 156
3 Species	= 95	16 species	= 158
4 Species	= 105	17 species	= 160
5 Species	= 115	18 species	= 162
6 Species	= 125	19 species	= 164
7 Species	= 130	20 species	= 166
8 Species	= 135	21 species	= 168
9 Species	= 140	22 species	= 170
10 Species	= 143	23 species	= 172
11 Species	= 146	24 species	= 174
12 Species	= 149	25 species	= 176
13 Species	= 152		

Add one point for every species past 25 (for example, 26 species=177 points,  
27 species = 178 points, etc.)

(no maximum score)

Provincially Significant Plant Species Score (no maximum) 95