Stantec

AMHERST ISLAND WIND ENERGY PROJECT

NATURAL HERITAGE ASSESSMENT & ENVIRONMENTAL IMPACT STUDY

Appendix E

Wetland Evaluations

WETLAND DATA AND SCORING RECORD

)	WETLAND NAME: PASTURE COMPLEX - Wetland CO
i)	MNR ADMINISTRATIVE REGION: SOUTHERN DISTRICT: PETERBOROUGH
	AREA OFFICE (if different from District):
ii)	CONSERVATION AUTHORITY JURISDICTION: CATARAQUI REGION
	(If not within a designated CA, check here:
v)	COUNTY OR REGIONAL MUNICIPALITY: LENNOX AND ADDINGTON
7)	TOWNSHIP: LOYALIST
ri)	LOTS & CONCESSIONS: (attach separate sheet if necessary)
£22.	
rii)	MAP AND AIR PHOTO REFERENCES
	a) Latitude Longitude:
	b) UTM grid reference: Zone: Block: Grid: E N
	c) National Topographic Series:
	map name(s) Kind 6 570cd
	map number(s) 31 C edition
	scale
	d) Aerial photographs: Date photo taken: Scale:
	Flight & plate numbers:
	(attach separate sheet if necessary)
	e) Ontario Base Map numbers & scale
	(attach separate sheets if necessary)
STREET, ST.	FIRST BASE SOLUTIONS - IMAGENT DATE: 2005

viii) WETLAND SIZE A	ND BOUNDARIES
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- a) Single contiguous wetland area: 31.01 hectares
- b) Wetland complex comprised of <u>5</u> individual wetlands:

MAP = ?	Wetland Unit Number (for reference)	Size of each wetland unit	
	Wetland Unit No.	<u>19.52</u> ha	
i de de la company de la compa	Wetland Unit No.2	2,08 ha	
<u>.</u>	Wetland Unit No. 3	<u>4.40</u> ha	
2	Wetland Unit No. 4	2.67 ha	
(Although)	Wetland Unit No.5	2-35 ha	
	Wetland Unit No. 6	ha	
	Wetland Unit No. 7	ha	
	Wetland Unit No. 8	ha	
	Wetland Unit No. 9	ha	
	Wetland Unit No. 10	ha	
	(Attach additional sheets	s if necessary)	
	TOTAL WET	LAND SIZE 31501 ha	
c) F	Brief documentation of rea	sons for including any areas less	s than 0.5 ha in size:
		sommen photosylphin i construction and control of the second and contr	
	workings assistance of the property as a late our substitute of proceedings in a late of some or determination in the late of the proceedings and the source of the late of th		Lind Links in the complete control accompany to the control of the
	entropy of the control of the contro		
	(Attach separate sheets if	necessary)	

1.0 BIOLOGICAL COMPONENT

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1.1 PRODUCTIVITY

1.1.1 GROWING DEGREE-DAYS/SOILS

GROWING DEGREE DAVS

GROWING DEGREE DAYS		SUILS.	
(check one) 1)	3200 3600 4000	Estimated I	Fractional Area clay/loam silt/marl limestone sand humic/mesic fibric granite

SCORING:

Growing Degree- Days	Clay- Loam	Silt- Marl	Lime- stone	Sand	Humic- Mesic	Fibric	Granite
<2800	15	13	11	9	8	7	5
2800-3200	18	15	13	11	9	8	7
3200-3600	(22)	18	15	13	11	9	7
3600-4000	26	21	18	15	13	10	8
>4000	30	25	20	18	15	12	8

(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) 22

1.1.2 WETLAND TYPE (Fractional	Area =	area of wetland	type/total	wetland	area)
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	Fractional Area		Score
Bog Fen		x 3 x 6	Name and Administration of the Administratio
Swamp	0.05	x 8	0.64
Marsh	5.92	x 15	13.8

Wetland type score (maximum 15 points) 14

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

	Fractional Area		Score
Isolated		x 1 =	
Palustrine (permanent or intermittent flow)	1.0	x 2 =	2.0
Riverine		x 4 = x 5 =	
Riverine (at rivermouth) Lacustrine (at rivermouth		x 5 = $x 5 =$	
Lacustrine (on enclosed		x 3 =	
bay, with barrier beach) Lacustrine (exposed to lake)		x 2 =	

Site Type Score (maximum 5 points) ____

1.2 BIODIVERSITY

1.2.1 NUMBER OF WETLAND TYPES

(Check only	one)	Score
1)	one	9 points
2)	two	13
3)	three	20
4)	four	30

Number of Wetland Types Score (maximum 30 points) 13

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 forms

Code	<u>Forms</u>	Dominant Species
M6	re, ff	re, Typha latifolia; ff, Lemna minor, Wolffia
S1	ts, gc	ts, Salix discolor; gc, Impatiens capensis, Thelypteris palustris

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 $2 = 2.5$	1 = 2 points 2 = 3.5	1 = 3 points 2 = 5
3 = 3.5	3 = 5	3 = 7
4 = 4.5 5 = 5	4 = 6.5 5 = 7.5	4 = 9 5 = 10.5
6 = 5.5 7 = 6	6 = 8.5 7 = 9.5	6 = 12
8 = 6.5	8 = 10.5	7 = 13.5 8 = 15
9 = 7 10 = 7.5	9 = 11.5 10 = 12.5	9 = 16.5 10 = 18
11 = 8	11 = 13	11 = 19
+.5 each additional community = 2.5	+.5 each additional community =	+1 each additional community =

e.g., a wetland with 3 one 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)

Wetland Name:	PASTURE COMPLER
Wetland Size (ha):	PASTURE COMPLER
Vegetation Form	% area in which form is dominant
h	
С	AUDIGORIGAN
dh	- mentalisticitud
dc	
ts	with the second
ls	
ds	- Annie A
gc	92
m	
ne	windows and control of the control o
be	MINISTERIOR
re	All representations (CP)
ff	- Announcedores
f	esteronicalists
su	
u (unvegetate	ed)
Total = 100%	/ a

1.2.3 <u>DIVERSITY OF SURROUNDING HABITAT</u>

(Check all appropriate items)

	× × ×	row crop pasture abandoned agricultural land deciduous forest coniferous forest mixed forest (at least 25% conifer and 75% deciduous or vice abandoned pits and quarries open lake or deep river fence rows with cover, or shelterbelts terrain appreciably undulating, hilly, or with ravines creek flood plain	8.7
		Diversity of Surrounding Habitat Score (1 for each, maximum 7 pe	oints)
1.2.4		Y TO OTHER WETLANDS appropriate category only)	Scoring
	1) 💢	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)	Hydrologically connected by surface water to other wetlands (same dominant wetland type) within 0.5 km	8
	3)	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)	Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5 to 1.5 km away	5
	5)	Within 0.75 km of other wetlands (different dominant wetland type) or open water body, but not hydrologically connected by surface water	5
	6)	Within 1 km of other wetlands, but not hydrologically connected by surface water	2
	7)	No wetland within 1 km	0

Proximity to other Wetlands Score (Choose one only, maximum 8 points) ___

1.2.5 INTERSPERSION

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	
2) 27 to 40 6 3) 41 to 60 9 4) 61 to 80 12 5) 81 to 100 15	
3) 41 to 60	
4) 61 to 80 12 5) 81 to 100 15	
5) 81 to 100	
2) 01 00 100	
0 1014-105	
6) 101 to 125 18	
7) 126 to 150 <u>×</u> 21	
8) 151 to 175	
9) 176 to 200 27	
10) >200 30	

Interspersion Score (Choose one only, maximum 30 points) 21

1.2.6 OPEN WATER TYPES

Permanently flood (Check one)	ded:	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)

1.3 SIZE

31.91 hectares

Size Score (Biological Component) (maximum 50 points) 19

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	1	13	23	34	43	50	50
81-100	8	10	11	13	15	25	37	46	50	50
101-120	9	1	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
401-600	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 COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

2.	perment.	. 1	W	00	D	PR	0	D	U	\mathbb{C}'	-	S

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

		Score
1) 1	<5 ha	0
2)	5 - 25 ha	3
3)	26 - 50 ha	6
4)	51 - 100 ha	9
5)	101 - 200 ha	12
6)	>200 ha	18
of informat	ion: STANGE	FIEL

4)	51 - 100 ha 101 - 200 ha	9	
5)	101 - 200 ha >200 ha	12 18	
0)	>200 na	10	
Source of inform	nation: STANTEC	<u>ELECO SURV</u>	(ey)
	Woo	d Products Score	e (Score one only, maximum 18 points)
2.1.2 WILD RI	CE		
(Check o	one)		Score (Choose one)
Present (minimum size 0.5 ha)	1)	6 points
Absent		2)	0
Source o	f information: STAN	TEC FIELD	SURVEYS
			Wild Rice Score (maximum 6 points)
2.1.3 COMME	RCIAL FISH (BAIT F	ISH AND/OR CO	DARSE FISH)
(Check o			Score (Choose one)
Present		1)	12 points
Habitat r	not suitable for fish	2)	0
Source o	f information: STAN	TEC FIELD	SURVEYS
		Comme	ercial Fish Score (maximum 12 points)
2.1.4 BULLFR	200200000000000000000000000000000000000		
(Check of	one)	1)	Score (Choose one)
Present		1)	1 points
Absent		4)	U
Source o	f information: STATES	TEC FIELD	SURVEYS

Bullfrog Score (maximum 1 point) O

2.1.5 SNAPPING TURTI (Check one) Present Absent	1) 2)	Score (Cho	ose one)					
Source of informat	ion: STANTEC F	ELD SURVEYS						
Snapping Turtle Score (maximum 1 point)								
2.1.6 FURBEARERS (Consult Appendix 9)								
Name of furbearer	Source of in	nformation						
1) 2) 3) 4) 5) Scoring: 3 points for each species, maximum 12 Furbearer Score (maximum 12 points) 2.2 RECREATIONAL ACTIVITIES								
	Type of Wetlan	id-Associated Use						
Intensity of Use	Hunting	Nature Enjoyment/ Ecosystem Study	Fishing					
High	40 points	40 points	40 points					
Moderate	20	20	20					
Low Not Possible/Not known	8	8	8					
(score one level for each of the three wetland uses; scores are cumulative; maximum score 80 points) Sources of								
information: Hur	nting:	And Andread and An						
Nat	ure:							
Fick	1 1 2 7 7 .							

Recreational Activities Score (maximum 80 points)

2.3 LANDSCAPE AESTHETICS

2.3.1 DISTINCTNESS (Check one) Clearly distinct 1) Indistinct 2)	Score (Choo 3 points 0	
Landscape Distinctness	Score (max	ximum 3 points)
Wetland intact but impairment of ecosystem quality intense in some areas Extreme ecological degradation, or water pollution severe and widespread	1) 2) 3) 4) 5)	1
Source of information: STANTEC FIELD SURL Absence of Human Disturbance 2.4 EDUCATION AND PUBLIC AWARENESS		ximum 7 points) <u></u>
2.4.1 EDUCATIONAL USES (Check one) Frequent 1) Infrequent 2) No visits 3) Source of information: STANTEC FIELD SURVEYS	Score (Choo 20 points 12	ose one)
Educational Uses	Score (maxi	imum 20 points) 🔘
2.4.2 FACILITIES AND PROGRAMS (check one) Staffed interpretation centre No interpretation centre or staff, but a system of self-guiding trails or brochures available Facilities such as maintained paths (e.g., woodchips), boardwalks, boat launches or observation towers but no brochures or other interpretation No facilities or programs	1) 2) 3)	Score (Choose one) 8 points 4
Source of information: STANTEC FIELD SURVEYS		

Facilities and Programs Score (maximum 8 points)

3 4 3	DECEADOR	4 3 173	OTHER INSTRUC
2.4.3	RESEARCH	AND	SIUDIES

(check appropriate spaces)		Score
Long term research has been done		12 points
Research papers published in refereed scientific		. •
journal or as a thesis		10
One or more (non-research) reports have been written		
on some aspect of the wetland's flora, fauna,		
hydrology, etc.		5
No research or reports	10 Jan	0
*		

Attach list of known reports by above categories

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

2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT

Circle the highest applicable score

Distance of wetland from settlement	1) population >10,000	2) population 2,500 - 10,000	3) population <2,500 or cottage community
Within or adjoining settlement	40 points	26	16
2) 0.5 to 10 km from settlement	26	16	10
3) 10 to 60 km from settlement	12	. 8	4
4) >60 km from settlement	5	2	0

(+) >	60 km from settlement	5	2	0	
Nam	e of settlement: Stell	A	alakaridanga		
	Proxi	imity to Human Sett	tlement Score (maximum 40	points) <u> </u>
2.6	OWNERSHIP (FA = fractiona FA of wetland in public or priva	Area	Score		
	held under contract or in trust f		X	10 =	
	FA of wetland area in public or	wnership, not as above		**************************************	
	FA of wetland area in private o	<u>.</u> -	/e x	4 =	
	Source of information:	По-14 м м обмента при			reference commission of the co
		d brazili	nershin Scare (recovironamen 10 a	animed by

Evaluation Table for Size Score (Social Component)

Wetland size (ha)	Total for Size Dependent Score									
	<31	31-45	46-60	61-75	76-90	91-105	106-109	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	1.0	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	3	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	18	19	20	20
63-81	5	8	11	15	17	18	19	20	20	20
82-105	6	9	11	15	18	18	19	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) _______



2.8 ABORIGINAL AND CULTURAL HERITAGE 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) _____ Significant = 30 points 2) ____ Not Significant = 0 3) ____ Unknown = 0

2.8.2 CULTURAL HERITAGE

1) _____ Significant = 30 points 2) ____ Not Significant = 0 3) ____ Unknown = 0

Aboriginal Values/Cultural Heritage Score (maximum 30 points)

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 100 ha complex is isolated, 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				
-	Wetland is located on one of the defined 5 large lakes or 5 major rivers (Go to Step 4). Wetland is entirely isolated (i.e. not part of a complex) (Go to Step 4) All other wetland types (Go through steps 2, 3, and 4B)				
Step 2.	Determination of Upstream Detention Factor (DF)				
(a) (b) (c) (d)	Wetland area (ha) Total area (ha) of <u>upstream</u> detention areas (include the wetland itself) Ratio of (a):(b) Upstream detention factor: (c) x 2 = (maximum allowable factor = 1)	38.41 0.81			
Step 3	Determination of Wetland Attenuation Factor (AF)			
(a) (b) (c) (d)	Wetland area (ha) Size of catchment basin (ha) <u>upstream</u> of wetland (include wetland itself in catchment area) Ratio of (a):(b) Wetland attenuation factor: (c) x 10 = (maximum allowable factor = 1)	31.01 169.1 0.18			
Step 4.	Calculation of final score				
(a)	Wetlands on large lakes or major rivers	0			
(b)	Wetland entirely isolated	100			
(b)	All other wetlands calculate as follows:				
	Initial score Upstream detention factor (DF) (Step 2) Wetland attenuation factor (AF) (Step 3) Final score: ((DF + AF)/2) x Initial score =	100*			

Flood Attenuation Score (maximum 100 points)

*Unless wetland is a complex with isolated portions (see above).

3.2 WATER QUALITY IMPROVEMENT

3.2.1 SHOR	T TERM WATER QUALITY IMPROVEMENT	
Step 1:	Determination of maximum initial scor	°e
	Wetland on one of the 5 defined large lake All other wetlands (Go through Steps 2, 3,	es or 5 major rivers (Go to Step 5a) 4, and 5b)
<u>Step 2:</u>	Determination of watershed improvem Calculation of WIF is based on the fractional area that makes up the total area of the wetland.	
(FA = a)	rea of site type/total area of wetland)	Fractional Area
FA of is	olated wetland	x 0.5 =
	verine wetland	x 1.0 =
	alustrine wetland with no inflow	x 0.7 =
	alustrine wetland with inflows	x 1.0 = 1
	custrine on lake shoreline	x 0.2 =
FA of la	custrine at lake inflow or outflow	x 1.0 = x 0.7 = x 1.0 = x 0.2 = x 1.0 =
	Sum (WIF canno	t exceed 1.0)
Step 3:	Determination of catchment land use (Choose the first category that fits upstream landuse	
n ×	Over 50% agricultural and/or urban	1.0
2)	Between 30 and 50% agricultural and/or urban	0.8
3)	Between 30 and 50% agricultural and/or urban Over 50% forested or other natural vegetation	0.6
	LUF (maximum 1.0)	GOMMANDO
Step 4:	Determination of pollutant uptake factor (PUT)	
the total	ion of PUT is based on the fractional area (FA) of each area of the wetland. Base assessment on the domity except where dead trees or shrubs dominate. In the tive vegetation type. (FA = area of vegetation type/to	ninant vegetation form for each hat case base assessment on the
ΓΑ - 6	administrative than account of the first	m

Fractional Area

x 0.75 = FA of wetland with live trees, shrubs, herbs or mosses (c,h,ts,ls,gc,m) FA of wetland with emergent, submergent ____ x 1.0 = ____ or floating vegetation (re,be,ne,su,f,ff) ____ x 0.5 = ____ FA of wetland with little or no vegetation (u)

Sum (PUT cannot exceed 1.0)

Step 5:	Calculation of final score	
(a)	Wetland on large lakes or major rivers	0
(b)	All other wetlands - calculate as follows	
	Initial score	60
	Water quality improvement factor (WQF)	
	Land use factor (LUF)	
	Pollutant uptake factor (PUT)	25:0
	Final score: 60 x WQF x LUF x PUT =	w. 5

Short Term Water Quality Improvement Score (maximum 60 points) 45

3.2.2 LONG TERM NUTRIENT TRAP

Step 1:	Wetland on large lakes or 5 major rivers All other wetlands (Proceed to Step 2)	0 points
Step 2:	Choose only one of the following settings that best descri	bes the wetland being evaluated
1)	Wetland located in a river mouth Wetland is a bog, fen, or swamp with more than 50% of the wetland being covered with	10 points
3)	organic soil Wetland is a bog, fen, or swamp with less than 50% of the wetland being covered with	10
4)	organic soil Wetland is a marsh with more than 50% of the wetland covered with organic soil	3
5)	None of the above	0

Long Term Nutrient Trap Score (maximum 10 points)

3.2.3 GROUNDWATER DISCHARGE

(Circle the characteristics that best describe the wetland being evaluated and then sum the scores. If the sum exceeds 30 points assign the maximum score of 30.)

Wetland Characteristics	Potential for Discharge				
	None to Little	Some	High		
Wetland type	1) Bog = 0	2) Swamp/Marsh = 2	3) Fen = 5		
Topography	1) Flat/rolling =0	2) Hilly = 2	3) Steep = 5		
Wetland Area:Upslope Catchment Area	Large (>50%) = 0	Moderate (5-50%) =(2)	Small (<5%) = 5		
Lagg Development	1) None found =0	2) Minor = 2	3) Extensive = 5		
Seeps	1) None (0)	2) = or < 3 seeps = 2	3) > 3 seeps = 5		
Surface marl deposits	1) None € 0	2) = or < 3 sites = 2	3) > 3 sites = 5		
Iron precipitates	1) None = 0	2) = or < 3 sites = 2	3) > 3 sites = 5		
Located within 1 km of a major aquifer	N/A=0	N/A = 0	Yes = 10		

(Scores are cumulative, maximum score 30 points)

Groundwater Discharge Score (maximum 30 points)___

3.3 CARBON SINK

Choose only one of the following

1)	Bog, fen or swamp with more than 50% coverage	
	by organic soil	5 points
2)	Bog, fen or swamp with between 10 to 49%	
	coverage by organic soil	2
3)	Marsh with more than 50% coverage by organic	
	soil	3
4)	Wetlands not in one of the above categories	(0)

Carbon Sink Score (maximum 5 points)_

3.4 SHORELINE EROSION CONTROL

Step 1:		Score
	Wetland entirely isolated or palustrine Any part of the wetland riverine, or lacustrine (proceed to Step 2)	0

Step 2:

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

	Score
1) Trees and shrubs	15
2) Emergent vegetation	8
3) Submergent vegetation	6
4) Other shoreline vegetation	3
5) No vegetation	0

Shoreline Erosion Control Score (maximum 15 points)

3.5 GROUND WATER RECHARGE

3.5.1 WETLAND SITE TYPE

(a) Wetland > 50% lacustrine (by area) or located on one of the five major rivers

(b) Wetland not as above. Calculate final score as follows:

(FA = area of site type/total area of wetland)

Fractional Area

FA of isolated or palustrine wetland

FA of riverine wetland

FA of lacustrine wetland (wetland <50% lacustrine)

Score

\$\$50 = 5 \text{ } \$\$

\$\$x 50 = 5 \text{ } \$\$

\$\$x 20 = \text{ } \$\$

FA of lacustrine wetland (wetland <50% lacustrine)

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

3.5.2 WETLAND SOIL RECHARGE POTENTIAL

(Circle only one choice that best describes the hydrologic soil class of the area surrounding the wetland being evaluated.)

Dominant Wetland Type	1) Sand, loam, gravel, till	2) Clay or bedrock
Lacustrine or on a major river	0	0
2) Isolated	10	5
3) Palustrine	7	4)
4) Riverine (not a major river)	5	2

Ground Water Recharge, Wetland Soil Recharge Potential Score (maximum 10 points)

4.0 SPECIAL FEATURES COMPONENT

<u>4.1 RARITY</u> 4.1.1 WETLANDS

Site Distr	rict 68-	15			
Presence	of wetland	type	(check	one	or more)
	Bog				
	Fen				
7	Swamp				
7	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.

C:4-	C C D		Score for Rarity of Wetland Type				
District v	Score for Rarity within the Landscape	Marsh	Swamp	Fen	Bog		
6-1	60	40	0	80	80		
6-2	60	40	0	80	80		
6-3	40	10	0	40	80		
6-4	60	40	0	80	80		
6-5	20	40	0	80	80		
6-6	40	20	0	80	80		
6-7	60	10	0	80	80		
6-8	20	20	0	80	80		
6-9	0	20	0	80	80		
6-10	20	0	20	80	80		
6-11	0	30	0	80	80		
6-12	0	30	0	60	80		
6-13	60	10	0	80	80		
6-14	40	20	0	40	80		
6-15	40)	0	(a)	80	80		
7-1	60	0	60	80	80		
7-2	60	0	0	80	80		
7-3	60	0	0	80	80		
7-4	80	0	0	80	80		
7-6	80	30	0	80	80		

Rarity within the Landscape Score (maximum 80 points)
Rarity of Wetland Type Score (Maximum 80 points)

<u>4.1.2 SPECIES</u>

4.1.2.1 BREEDING HABITAT	FOR AN ENDANGERED OR THREATENED SPECIES
Name of species	Source of information
1) NONE	SMUTTER FLED SHOWETS
3)	
Attach documentation.	
Scoring:	
For each species	250 points
(Score is cumulative, no maximum sco	ore)
Breeding Habitat for E	ndangered or Threatened Species Score (no maximum)
4.1.2.2 TRADITIONAL MIGRATITHREATENED SPECIES	TION OR FEEDING HABITAT FOR AN ENDANGERED OF
Name of species	Source of information
1) Nave	STANTEL FLEW SHIVERS
2)	
3)	9
Attach documentation.	
Scoring:	
For one species	150 points
For each additional species	75
(Score is cumulative, no maximum sco	ore)
Traditional Habitat for 1	Endangered or Threatened Species Score (no maximum)

4.1.2.3 PROVINCIALLY SIGNIFICANT ANIMAL SPECIES

Name of species	Source of information	on	
1) Nove	SANTEC	E CELO	Survey
2)			···········
3)			·
4)			
5)	A44 1 8		
Attach separate list if nece	ssary; Attach documentatio	JΠ	

Scoring:

Number of provincially significant animal species in the wetland:

One species		50 points	14 species	- Company	154
2 species	-	80	15 species	Administration of the Control of the	156
3 species	=	95	16 species	-	158
4 species	WARRING THE PARTY OF THE PARTY	105	17 species		160
5 species		115	18 species	- modern	162
6 species	-	125	19 species	distribution manager	164
7 species		130	20 species	modest? Waters	166
8 species	-	135	21 species		168
9 species	-	140	22 species		170
10 species		143	23 species	1000	172
11 species		146	24 species	200	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)

4.1.2.4 PROVINCIALLY SIGNIFICANT PLANT SPECIES

(Scientific names must be recorded)

Common Name	Scientific Name	Source of information
1) Nor6		STAPPIECE FIELD SURVEYS
2)		
3)		
4)		
5)		

Attach separate list if necessary. Attach documentation.

Scoring:

Number of provincially significant plant species in the wetland:

One species	and a second	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	-00.000	168
9 species	=	140	22 species		170
10 species	==	143	23 species	19000	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.)

Provincially Significant Plant Species Score (no maximum)

4.1.2.5 REGIONALLY SIGNIFICANT SPECIES (SITE REGION)

Scientific names must be recorded for plant species. Lists of significant species must be approved by MNR.

SIGNIFICANT IN SITE REGION:

Common Name	Scientific Name	Source of information
1) NONE		STANTEL FLEW SULVEY
2)		
3)		
4)		
5)		
6)		
7)		
8)		

Attach separate list if necessary. Attach documentation

Scoring:

No. of species significant in Site Region

One species	=	20	6 species	all of the second	55
2 species		30	7 species		58
3 species	-000.00	40	8 species		61
4 species		45	9 species	********	64
5 species	*****	50	10 species	=	67

Add one point for every species past 10. (No maximum score)

Regionally Significant Species Score (Site Region) (no maximum)

4.2.1.6 LOCALLY SIGNIFICANT SPECIES (SITE DISTRICT)

Scientific names must be recorded for plant species. Lists of significant species must be approved by MNR.

Common Name	Scientific Name	Source of information	
1) Nort		SMARTER FLEND SURVEY	
2)			
3)			
4)			
5)			
6)		·	
7)			
8)			
9)			
10)			

Attach separate list if necessary. Attach documentation.

Scoring:

No. of species significant in Site District

One species 2 species 3 species 4 species	=======================================	10 17 24 31	6 species 7 species 8 species 9 species	= = =	41 43 45 47
5 species		38	10 species	-	49

For each significant species over 10 in the wetland, add 1 point.

Locally Significant Species Score(Site District) (no maximum)

4.2 SIGNIFICANT FEATURES AND/OR FISH & WILDLIFE HABITAT

4.2.1 NESTING OF COLONIAL WATERBIRDS

Status	Name of species	Source of Information	Score
Currently nesting			50 points
Known to have nested within past 5 years			25
3) Active feeding area (Do not include feeding by great blue herons)			15
4) None known	NONE		0

Attach documentation (nest locations, etc., if known)

Score highest applicable category only; maximum score 50 points.

Score for Nesting Colonial Waterbirds (maximum 50 points)

4.2.2. WINTER COVER FOR WILDLIFE

(Check only I	Score	
1)	Provincially significant 100 Significant in Site Region Significant in Site District Locally significant Little or poor winter cover present	50 25 10 0

Source of information: Starte Free Starteys

Winter Cover for Wildlife Score (maximum 100 points)

4.2.3 WATERFOWL STAGING AND/OR MOULTING

(Check only highest level of significance for both staging and moulting; score is cumulative across columns, maximum score 150)

		Staging	Score (one only)	Moulting	Score (one only)
2)	Nationally significant Provincially significant		150 100		150 100
3)	Regionally significant		50 10		50 10
	Known to occur		10		10
5)	Not possible	For	0	<u> </u>	0
6)	Unknown		0		0
	gri		90a		

Source of information: SAFEE FLED SLEVEY

Waterfowl Moulting and Staging Score (maximum 150 points)

4.2.4 WATERFOWL BREEDING

(Check o	Score	
1) 2) 3) 4)×	Provincially significant Regionally significant Habitat suitable Habitat not suitable	100 ° 50 10 0

Source of information: State Frag Syrvers

Waterfowl Breeding Score (maximum 100 points)

4.2.5 MIGRATORY PASSERINE, SHOREBIRD OR RAPTOR STOPOVER AREA

(check highest applicable category)

		<u> </u>	~ ~ ~ /	
				Score
1)		Provincially	significant	100
2)		Significant i	n Site Region	50
3)		Significant i	in Site District	10
4)	X	Not signific	ant	0

Source of information: STATTEL FLOD SURVEY

Passerine, Shorebird or Raptor Stopover Score (maximum 100 points)

4.2.7 FISH HABITAT

4.2.7.1 Spawning and Nursery Habitat

Table 5. Area Factors for Low Marsh, High Marsh and Swamp Communities.

No. of ha of Fish Habitat	Area Factor	
< 0.5 ha	Q.D	16/6/indexformensoumle
0.5 - 4.9	0.2	
5.0 - 9.9	0.4	
10.0 - 14.9	0.6	
15.0 - 19.9	0.8	
20.0+ ha	1.0	

Step 1:

Fish habitat is not present within the wetland (Score = 0)

Fish habitat is present within the wetland (Go to Step 2)

Step 2:	Choose only one option	
1) ×	Significance of the spawning and nursery habitat within the wetland is kne (Go to Step3)	own
2)	Significance of the spawning and nursery habitat within the wetland is no known (Go through Steps 4, 5, 6, and 7)	t
<u>Step 3:</u> 1)	Select the highest appropriate category below, attach documentation: Significant in Site Region	100 points
2)	Significant in Site District	50
3)	Locally Significant Habitat (5.0+ ha)	25
4) 🚣	Locally Significant Habitat (<5.0 ha)	15

Score for Spawning and Nursery Habitat (maximum score 100 points) 15

\	Step 4: Proceed to Steps 4 to 7 only if Step 3 was not answered.
)	(Low Marsh: marsh area from the existing water line out to the outer boundary of the wetland)
	Low marsh not present (Continue to Step 5) Low marsh present (Score as follows)
	Scaring for Presence of Kay Vagetation Crowns

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each Low Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16, Table 16-2) for each Low Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (see Table 5)	Score	Final Score (area factor x score)
	Tallgrass				6 pts	
2	Shortgrass-Sedge				11	
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				5	
5	Duckweed				2	
6	Smartweed-Waterwillow				6	
7	Waterlily-Lotus				11	
8	Waterweed-Watercress				9	
9	Ribbongrass				10	
10	Coontail-Naiad-Watermilfoil				13	
11	Narrowleaf Pondweed				5	
12	Broadleaf Pondweed				8	
·	Total So	ore (maximu	ım 75 po	ints)		

Step 5: (High Marsh: area from the water line to the inland boundary of marsh wetland type. This is essentially
what is commonly referred to as a wet meadow, in that there is insufficient standing water to provide fisheries
habitat except during flood or high water conditions.)
High marsh not present (Continue to Step 6)
High marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each High 1Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16, Table 16-2) for each High Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (see Table 5)	Score	Final Score (area factor x score)		
	Tallgrass		The state of the s		6 pts			
2	Shortgrass-Sedge				1			
3	Cattail-Bulrush-Burreed		A CONTRACTOR OF THE CONTRACTOR	Personal Per	5			
4	Arrowhead-Pickerelweed		OFFICE STOCK OF THE STOCK OF TH		5			
Total Score (maximum 25 points)								

Step 6:	(Swamp:	Swamp	communities	containing	fish habitat	, either se	asonally o	or perma	nently.		
Determin	ne the tota	l area of	seasonally flo	ooded swar	nps and per	manently	flooded	swamps	containing	fish h	nabitat.)

Swamp	containing	fish	habitat	not pr	esent	(Conti	nue to	Step	7)
Swamp	containing	fish	habitat	preser	nt (Sc	ore as	follow	s)	

Swamp containing fish habitat	Present (check)	Total area (ha)	Area Factor (see Table 5)	Score	TOTAL SCORE (factor x score)
seasonally flooded				10	
permanently flooded				10	

Step 7:	Calculation	of	final	score
---------	-------------	----	-------	-------

Score for Spawning and Nursery Habitat (Low Marsh) (maximum 75)	
Score for Spawning and Nursery Habitat (High Marsh) (maximum 25)	### ##################################
Score for Swamp Containing Fish Habitat (maximum 20)	= Sum (maximum score 100 points) =

4.2.6.2 Migration and Staging Habitat

Step 1:

- 1) $\frac{1}{2}$ Staging or Migration Habitat is not present in the wetland (Score = 0)
- 2) ___Staging or Migration Habitat is present in the wetland, significance of the habitat is known (Go to Step 2)
- 3) ___ Staging or Migration Habitat is present in the wetland, significance of the habitat is not known (Go to Step 3)

NOTE: Only one of Step 2 or Step 3 is to be scored.

Step 2: Select the highest appropriate category below, attach documentation:

1)	salaktekenya	Significant in Site Region	25 points	Score
2)	**************************************	Significant in Site District	15	
3)	NOTE AND ADDRESS OF	Locally Significant	10	
4)	wolveboussessesses	Fish staging and/or migration habitat present, but not as above	5	

Score for Fish Migration and Staging Habitat (maximum score 25 points)

Step 3: Select the highest appropriate category below based on presence of the designated site type (does not have to be dominant). See Section 1.1.3. Note name of river for 2) and 3).

1)	Marine Marine	Wetland is riverine at rivermouth or lacustrine at rivermouth	Score 25 points
2)	махамардыну	Wetland is riverine, within 0.75 km of rivermouth	15
3)	THE PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TO THE PERS	Wetland is lacustrine, within 0.75 km of rivermouth	10
4)	emmetodasias	Fish staging and/or migration habitat present, but not as above	0

Score for Staging and Migration Habitat (maximum score 25 points)___

4.3 ECOSYSTEM AGE

(Fractional Area = area of wetland/total area of wetland area)

Fractional Area	Scoring
Bog	x 25
Fen, treed to open on deep soils, floating mats or marl	x 20
Fen, on limestone rock	x 5
Swamp	0.08 x 3 6 24
Marsh	0 92 x 0 0

Ecosystem Age Score (maximum 25 points)

4.4 GREAT LAKES COASTAL WETLANDS

Score for coastal (see text for definition) wetlands only

Choose one only

_____ wetland <10 ha
____ wetland 10-50 ha
____ wetland 51-100 ha
____ wetland >100 ha

Great Lakes Coastal Wetlands Score (maximum 75 points)

5.0 EXTRA INFORMATION

5.1 PURPLE LOOSESTRIFE

Absent/Not seen					
Present	(a)		location in wetland to many locations		
	(b)	Abu (1) (2) (3) (4)	ndance code< 20 stems20-99 stems100-999 stems>1000 stems		
5.2 SEASONALLY FLOOI	DED	ARE	CAS		
Indicate length of seasonal floo	ding				
Check one or more					
Ephemeral Temporal Seasonal Semi-permanent No seasonal flooding	(2 v (1 t	less than 2 weeks) 2 weeks to 1 month) 1 to 3 months) >3 months)			
5.3 SPECIES OF SPECIAL SIGNIFICANCE					
5.3.1 Osprey					
Present and nesting Known to have nested in last 5 yr. Feeding area for Osprey Not as above					
5.3.2 Common Loon					
Nesting in wetland Feeding at edge of wetlar Observed or heard on lake river adjoining the wetl Not as above	e or		<u> </u>		

INVESTIGATORS	AFFILIATION
JAMES LESCIE	STANTEC CONSULTING
KATHERINE ST. JAMES	STANTEC CONSULTING.
ALAN MOGNINGTON	CONTRACT BIRDER
DATES WETLAND VISITED	
JULY 27,2011	MACH 27, 2013
DATE THIS EVALUATION C	OMPLETED: AUGUST 23, 2012
ESTIMATED TIME DEVOTE	D TO COMPLETING THE FIELD SURVEY IN "PERSON HOURS"
WEATHER CONDITIONS	
i) at time of field work (Continue in the space below if necessary)	cessary)
ii) summer conditions in genera	WARM SUBJECT TO LAKE OFFECT
	PLECIPITATION
OTHER POTENTIALLY USE	FUL INFORMATION:
- HERBS ARE GRAZE	TYELT USED SHEEP PASTURE OF IN THE SPRING BUT SELECTIVELY E MATURE (REED-LAMARY BRASS OFTER MINIMAL GRAZE & MUDDORATE TRAMPLING
CHECKLIST OF PLANT AND A	NIMAL SPECIES RECORDED IN THE WETLAND:

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

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

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WETLAND EVALUATION SCORING RECORD

WETLAND NAME AND/OR NUMBER PASSURE COMPLET

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 Growing Degree-Days/Soils	have have
1.1.2 Wetland Type	Demonstrative representation and the second
1.1.3 Site Type	
Total for Productivity	38

1.2 BIODIVERSITY

1.2.1 Number of Wetland Types1.2.2 Vegetation Communities (maximum 45)1.2.3 Diversity of Surrounding Habitat (maximum 7)1.2.4 Proximity to Other Wetlands	13 3 4 8
1.2.5 Interspersion 1.2.6 Open Water Type	emercial contracts of contracts

Total for Biodiversity

1.3 SIZE (Biological Component)

TOTAL FOR BIOLOGICAL COMPONENT (not to exceed 250)



2.0 <u>SOCIAL COMPONENT</u>

2.1 ECONOMICALLY VALUABLE PRODUCTS		
2.1.1 Wood Products2.1.2 Wild Rice2.1.3 Commercial Fish2.1.4 Bullfrogs2.1.5 Snapping Turtles2.1.6 Furbearers	00000	
Total for Economically Valuable Products		
2.2 <u>RECREATIONAL ACTIVITIES</u> (maximum 80)		
2.3 <u>LANDSCAPE AESTHETICS</u>		
2.3.1 Distinctness2.3.2 Absence of Human Disturbance	<u>.</u> O	
Total for Landscape Aesthetics		
2.4 EDUCATION AND PUBLIC AWARENESS		
2.4.1 Educational Uses2.4.2 Facilities and Programs2.4.3 Research and Studies	0	
Total for Education and Public Awareness		
2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT	•	16
2.6 <u>OWNERSHIP</u>		
2.7 SIZE (Social Component)		S
2.8 <u>ABORIGINAL AND CULTURAL VALUES</u>		0
TOTAL FOR SOCIAL COMPONENT (not to exceed 250)		25

3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

100

3.2 WATER QUALITY IMPROVEMENT

3.2.1 Short Term Improvement	45
3.2.2 Long Term Improvement	
3.2.3 Groundwater Discharge (maximum 30)	L

Total for Water Quality Improvement

49

3.3 CARBON SINK

0

3.4 SHORELINE EROSION CONTROL

0

3.5 GROUNDWATER RECHARGE

3.5.1 Site Type 3.5.2 Soils

<u>50</u> <u>4</u>

Total for Groundwater Recharge

54

TOTAL FOR HYDROLOGICAL COMPONENT (not to exceed 250)

203

4.0 SPECIAL FEATURES

4.1 <u>RARITY</u>

4.1.1 Wetlands	
4.1.1.1 Rarity within the Landscape	40
4.1.1.2 Rarity of Wetland Type (maximum 80)	
Total for Wetland Rarity	40
4.1.2 Species	
4.1.2.1 Endangered Species Breed	
4.1.2.2 Traditional Use by Endangered or	employational de California property a
Threatened Species	
4.1.2.3 Provincially Significant Animals	Š
4.1.2.4 Provincially Significant Plants	
4.1.2.5 Regionally Significant Species	
4.1.2.6 Locally Significant Species	
Total for Species Rarity	0
4.2 <u>SIGNIFICANT FEATURES OR HABITAT</u>	
4.2.1 Colonial Waterbirds	
4.2.2 Winter Cover for Wildlife	
4.2.3 Waterfowl Staging and Moulting	
4.2.4 Waterfowl Breeding	entropy and the distribution of the state of
4.2.5 Migratory Passerine, Shorebird or Raptor Stopover	
4.2.6 Fish Habitat	en-rotation term interpretation
Total for Significant Features and Habitat	1
4.3 ECOSYSTEM AGE	0
4.4 GREAT LAKES COASTAL WETLANDS	0
TOTAL FOR SPECIAL FEATURES (maximum 250)	

SUMMARY OF EVALUATION RESULT

Wetland PASTURE COMPLEX

TOTAL FOR 1.0 BIOLOGICAL COMPONENT

TOTAL FOR 2.0 SOCIAL COMPONENT

TOTAL FOR 3.0 HYDROLOGICAL COMPONENT

25

TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT 55

WETLAND TOTAL

297

INVESTIGATORS

JAMES LESLIE - VEGETATION ONES EVALUATOR

KATHERINE ST. JAMES - VEGETATION

ALAN WORMINGTON - AVIAN OBSERVATIONS

AFFILIATION

SMATTER CONSULTING LTD.

DATE AUG_ 27, 2012

Summer Botanical Inventory Pasture Complex

		Ţ	r		r	1	1	1	
				 			 		
LATIN NAME	e e e e e e e e e e e e e e e e e e e	COMMON NAME	COEFFICIENT OF CONSERVATISM	WETNESS INDEX	WEEDINESS INDEX	PROVINCIAL STATUS	OMNR STATUS	COSEWIC STATUS	GLOBAL STATUS
LATIN NAIVIE	LOCAL CTATUS SOURCE	COMMON NAME	CONSCHANISM	METHEOD INDEX	HADEX	STATUS	ONITA STATOS	araroa	GEODAL STATOS
	LOCAL STATUS SOURCE								
	LAST UPDATE/ INITIALS						ļ		ļ
GYMNOSPERMS		CONIFERS					ļ		
Juniperus	virginiana	Eastern Red Cedar				S5			G5
							ļ		ļ
Pinaceae		Pine Family					ļ		<u> </u>
Picea	glauca	White Spruce	6	3		S5			G5
				ļ					<u> </u>
DICOTYLEDONS		DICOTS					ļ		
		ļ							
Apiaceae		Carrot or Parsley Family		 					
Daucus	carota	Wild Carrot		5	-2	SE5	ļ		G?
Heracleum	lanatum	Cow-parsnip	3	-3		S5			G5
				ļ					
Asteraceae		Composite or Aster Family				0.5	 		
Ambrosia	artemisiifolia	Common Ragweed	0	3		S5			G5
		Dogwood Family	ļ	 					
Cornaceae	fooming con recompes	Dogwood Family			-	05	 		050
Cornus	foemina ssp. racemosa	Red Panicled Dogwood	2	-2		S5	 		G5?
Cornus	stolonifera	Red-osier Dogwood	2	-3		S5			G5
Cuttiforno		St. John's-wort Family		 					
Guttiferae	podorstum	Common St. John's-wort		5	-3	SE5	 		G?
Hypericum	perforatum	Common St. Somms-wort		 		363	ļ		<u> </u>
Lamiaceae		Mint Family					<u> </u>		
Lycopus	uniflorus	Northern Water-horehound	5	-5		S5			G5
Lycopus	lurimorus	Truntiletti vvater norendana		 		0.5	<u> </u>		0.5
Oleaceae		Olive Family							
Fraxinus	pennsylvanica	Red Ash	3	-3		S5			G5
7 rexinds	l l	11007.007		 			h		
Polygonaceae		Smartweed Family							
Persicaria	maculosa	Lady's-thumb		-3	-1	SE5			G?

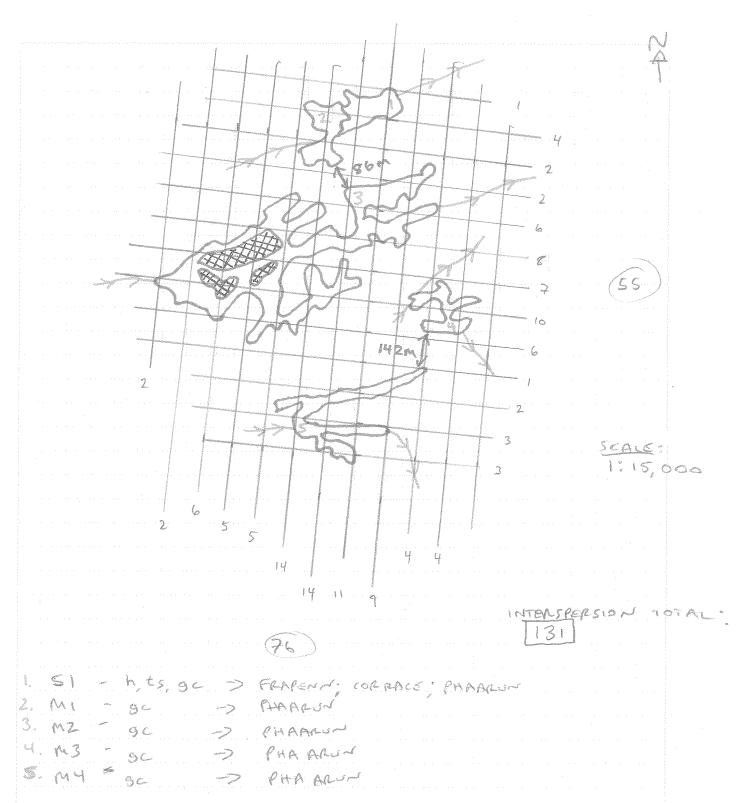
Rosaceae		Rose Family							
Crataegus	species	Hawthorn species							
Fragaria	vesca ssp. americana	Woodland Strawberry	4	4		S5			G5T?
Ulmaceae		Elm Family							
Ulmus	americana	White Elm	3	-2		S5			G5?
Verbenaceae		Vervain Family							
Verbena	hastata	Blue Vervain	4	-4		S5			G5

Vitaceae		Grape Family							
Parthenocissus	inserta	Inserted Virginia-creeper	3	3		S5			G5
Vitis	riparia	Riverbank Grape	0	-2		S5			G5
									<u> </u>
MONOCOTYLEDONS		MONOCOTS							ļ
						· · · · · · · · · · · · · · · · · · ·			
Cyperaceae	ļ	Sedge Family		ļ			ļ		ļ
Carex	granularis	Meadow Sedge	3	-4		S5			G5
Carex	pellita	Woolly Sedge	4	-5		S5 CF			G5
Carex	vulpinoidea	Fox Sedge	3	-5		S5	ļ		G5
Scirpus	atrovirens	Dark-green Bulrush	3 4	-5 -5		S5 S5	-	***************************************	G5?
Scirpus	cyperinus	Wool-grass	4	-5		- 00			G5
Juncaceae		Rush Family							
Juncus	tenuis	Path Rush	0	0		S5			G5
0011003	CIAIG	- 401 (1001)	<u> </u>	<u> </u>		- 55			44
Poaceae		Grass Family				-		***************************************	***************************************
Agrostis	stolonifera	Redtop		-3		S5			G5
Phalaris Phalaris	arundinacea	Reed Canary Grass	0	-4		S5			G5
						- 55			
Typhaceae		Cattail Family			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************	
Typha	angustifolia	Narrow-leaved Cattail	3	-5		S5		***************************************	G5

1



WITHIN POMINANT FORMS.



Designed by:

Checked by:

RECYCLED
Paper
FSC FSC* C101537



Data Summary Form

Wetland Name PASTURE COMPLEX

Page of

Map Code	Field Code	# Forms	Dominant Form	Forms	% open water	area (ha)	ha open water	Soils	Site Type	Fish Habitat
	S. Commenced	<u>~</u>	Ja.	N, 65, 90	Q	1	0	3	333	N En Contract
Lean Lean			96	J	355	4	<u> </u>		Ž	
	Ĭ	wind 9°	3	00	5.91.4.52	5	£ 2			
September 1	Q.,	26000	3 50	2 45		Q	٥			
A CONTRACTOR OF THE CONTRACTOR		*******	0	-28	0		0	TO SANCE		
							THE THE PROPERTY OF THE PROPER			CONTRACTOR AND ADDRESS OF THE PROPERTY ADDRESS
And the second s							AMAGO POPUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTU			
No. of the control of							AND THE PROPERTY OF THE PROPER		THE PROPERTY OF THE PROPERTY O	
- Control of the Cont	TO THE CASE OF THE	-					AND THE PROPERTY OF THE PROPER			
And State of the American State of the Ameri										
							ANY PROPERTY DESIGNATION OF THE PROPERTY OF TH			
					THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS					
Water Street, or other Street,	- Cardinal Control of the Control of			_	_					

WETLAND DATA AND SCORING RECORD

WET	LAND NAME: WETLAND # +
MNR	ADMINISTRATIVE REGION: 5 2-STHEFT DISTRICT: PETERBORDS
ARE	A OFFICE (if different from District);
CON	SERVATION AUTHORITY JURISDICTION: CATALAGUE REGIO
(If n	not within a designated CA, check here:
COU	NTY OR REGIONAL MUNICIPALITY: LENNOY + ADDINGTON
TOW	NSHIP: LOYALIST
LOTS	& CONCESSIONS:
(attaci	n separate sheet if necessary)
MAP	AND AIR PHOTO REFERENCES
a) L	atitude Longitude:
b) U	TM grid reference: Zone: Block: Grid: E N
c) N	ational Topographic Series:
	map name(s) Kindaston
	map name(s) Kinkastant map number(s) 31 c edition L
	scale_1:250,000
d) A	erial photographs: Date photo taken: Scale:
Fli	ight & plate numbers:
	(attach separate sheet if necessary)
e) Ont	ario Base Map numbers & scale
	(attach separate sheets if necessary)
RST	BASE SOLUTIONS - IMAGERY DATE = 200
	1 MARCHU

viii) WETLAND SIZE AND BOUNDARIES a) Single contiguous wetland area:	Z- Lhantaras	
a) Single configuous welland area.	licetates	
b) Wetland complex comprised of	individual wetlands:	
Wetland Unit Number (for reference)	Size of each wetland unit	
Wetland Unit No.1	2-\ ha	
Wetland Unit No. 2	ha	
Wetland Unit No. 3	ha	
Wetland Unit No. 4	ha	
Wetland Unit No. 5	ha	
Wetland Unit No. 6	ha	
Wetland Unit No. 7	ha	
Wetland Unit No. 8	ha	
Wetland Unit No. 9	ha	
Wetland Unit No. 10	ha	
(Attach additional sheets if neo	cessary)	0
TOTAL WETLAND	SIZE Z-1 ha	
c) Brief documentation of reasons for	or including any areas less than 0.5	ha in size:
0 ²		
		_
(Attach separate sheets if neces	ssary)	

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 GROWING DEGREE-DAYS/SOILS

GROWING DEGREE DAYS	SOILS
(check one) 1)	Estimated Fractional Area clay/loam silt/marl limestone sand humic/mesic fibric granite

SCORING:

Growing Degree- Days	Clay- Loam	Silt- Marl	Lime- stone	Sand	Humic- Mesic	Fibric	Granite
<2800	15	13	11	9	8	7	5
2800-3200	18	15	13	11	9	8	7
3200-3600 (22	18	15	13	11	9	7
3600-4000	26	21	18	15	13	10	8
>4000	30	25	20	18	15	12	8

(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) 22

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

	Fractional Area		Score
Bog		x 3	
Fen		x 6	
Swamp		x 8	
Marsh		x 15	15

Wetland type score (maximum 15 points) is

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

Fractional Area		Score
	x 1 =	
_1.0	x 2 =	2
	x 4 =	
	x = 5	
	x 5 =	
	x 3 =	
(1) to 10 (1)	x 2 =	31-10-
	Fractional Area	x 1 = x 2 = x 4 = x 5 = x 5 = x 3 =

Site Type Score (maximum 5 points) 2

1.2 BIODIVERSITY

1.2.1 NUMBER OF WETLAND TYPES

1) \(\sqrt{0} \) one \(9 \) po \(13 \) 3) \(\text{three} \) four \(30 \)	re
3) three 20	oints
4) four 30	
.,	

Number of Wetland Types Score (maximum 30 points)

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 forms

Code	<u>Forms</u>	Dominant Species
M6	re, ff	re, Typha latifolia; ff, Lemna minor, Wolffia
S1	ts, gc	ts, Salix discolor; gc, Impatiens capensis, Thelypteris palustris

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
1.5 points 2 = 2.5 3 = 3.5 4 = 4.5 5 = 5 6 = 5.5 7 = 6 8 = 6.5 9 = 7 10 = 7.5 11 = 8	1 = 2 points 2 = 3.5 3 = 5 4 = 6.5 5 = 7.5 6 = 8.5 7 = 9.5 8 = 10.5 9 = 11.5 10 = 12.5 11 = 13	1 = 3 points 2 = 5 3 = 7 4 = 9 5 = 10.5 6 = 12 7 = 13.5 8 = 15 9 = 16.5 10 = 18 11 = 19
+.5 each additional community = 1.5	+.5 each additional community =	+1 each additional community =

e.g., a wetland with 3 one 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) ______

Wetland Name: WET	iamo #7
Wetland Size (ha):	2-1
Vegetation Form	% area in which form is dominant
h	4
c	
dh	
dc	
ts	<u>//</u>
ls	
ds	
gc	35
m	3 = 1 = 2 1 245
ne	
be	
re	
ff	
f	
su	
u (unvegetated)	· · · · · · · · · · · · · · · · · · ·
Total = 100%	

1.2.3		opropriate items)	
		row crop pasture abandoned agricultural land deciduous forest coniferous forest mixed forest (at least 25% conifer and 75% deciduous or vice abandoned pits and quarries open lake or deep river fence rows with cover, or shelterbelts terrain appreciably undulating, hilly, or with ravines creek flood plain	
		Diversity of Surrounding Habitat Score (1 for each, maximum 7 p	oints)
1.2.4		Y TO OTHER WETLANDS appropriate category only)	Scoring
	1) 📉	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)	Hydrologically connected by surface water to other wetlands (same dominant wetland type) within 0.5 km	8
	3)	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)	Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5 to 1.5 km away	5
	5)	Within 0.75 km of other wetlands (different dominant wetland type) or open water body, but not hydrologically connected by surface water	5
	6)	Within 1 km of other wetlands, but not hydrologically connected by surface water	2
	7)	No wetland within 1 km	0
	Pro	oximity to other Wetlands Score (Choose one only, maximum 8 po	oints) 8

1.2.5 INTERSPERSION

Number of Inters (Check one)	ections	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	W	30

Interspersion Score (Choose one only, maximum 30 points)

1.2.6 OPEN WATER TYPES

(Check one)	oded:	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)



1.3 SIZE

2-1 hectares

Size Score (Biological Component) (maximum 50 points)

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
401-600	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 COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

2.1.1 WOOD PRODUCTS

Absent

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

only)					
			Score		
	1) >	<5 ha	0		
	2)	5 - 25 ha	3	*	
	3)	26 - 50 ha	6		
	4)	51 - 100 ha	9		
	5)	101 - 200 ha	12		
	6)	>200 ha	18		
Source	ce of information	n: STANTEC		36	
		Wood	d Products So	core (Score one only, maximum 18	points) 💍
2.1.2	WILD RICE				
	(Check one)			Score (Choose one)	
	Present (mini	imum size 0.5 ha)	1)	6 points	
	Absent		2) 💉	0	

Source of information:_

Wild Rice Score (maximum 6 points)

2.1.3 COMMERCIAL FISH (BAIT FISH AND/OR COARSE FISH) Score (Choose one) (Check one) 12 points Present Habitat not suitable for fish Source of information: 5 TANTEC

Commercial Fish Score (maximum 12 points) 12

2.1.4 BULLFROGS Score (Choose one) (Check one) 1 points Present Absent Source of information: STANTEC

Bullfrog Score (maximum 1 point)

2.1.5 SNAPPING TURT (Check one) Present Absent	1) 2) *	Score (Che	oose one)
Source of informa	tion: STANTEC		
	Sna	apping Turtle Score (max	imum 1 point)
2.1.6 FURBEARERS (Consult Appendix	9)		· —
Name of furbearer	Source of	finformation	
1) Node SBS 2) 3) 4)		ANTEC	· · · · · · · · · · · · · · · · · · ·
Scoring: 3 points for each	species, maximum 12	Furbearer Score (maximum 12 points)
2.2 RECREATIONAL	ACTIVITIES		
	Type of Wetla	and-Associated Use	
Intensity of Use	Hunting	Nature Enjoyment/ Ecosystem Study	Fishing
High	40 points	40 points	40 points
Moderate	20	20	20
Low	8	8	8
Not Possible/Not known	0.7	(0)	<u> </u>

Hunting:	STANTEC
Nature:	SMANTEC
Fishing:_	SAMTEC

Sources of information:

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

Recreational Activities Score (maximum 80 points)

2.3 LANDSCAPE AESTHETICS

2.3.1 DISTINCTNESS	Score (Choose one)
(Check one)	3 points
Clearly distinct 1) Indistinct 2)	•
Indistinct 2)	0
Landscape Distinctne	ss Score (maximum 3 points)
2.3.2 ABSENCE OF HUMAN DISTURBANCE	
(Check one)	Score (Choose one)
Human disturbances absent or nearly so	1) 7 points
One or several localized disturbances	2) 4
Moderate disturbance; localized water pollution	1) 7 points 2) 4 3) 2
Wetland intact but impairment of ecosystem quality	
intense in some areas	4) 1
Extreme ecological degradation, or water pollution	
severe and widespread	5) 0
a sign of the state of the stat	tan.
Source of information: STANTEC	
Absence of Human Disturba	nce Score (maximum 7 points)
2.4 EDUCATION AND PUBLIC AWARENESS	
TOTAL TIONE AND THE PARTY OF TH	
2.4.1 EDUCATIONAL USES	Score (Choose one)
(Check one)	20 points
Frequent 1)	12
Infrequent 2)	0
No visits 3)	V
Source of information: 5000000000000000000000000000000000000	
Educational Us	ses Score (maximum 20 points)
	• • •
2.4.2 FACILITIES AND PROGRAMS	_ F
(check one)	Score (Choose one)
Staffed interpretation centre	1) 8 points
No interpretation centre or staff, but a system of	
self-guiding trails or brochures available	2) 4
Facilities such as maintained paths (e.g., woodchips),	
boardwalks, boat launches or observation towers	
but no brochures or other interpretation	$\stackrel{3)}{\swarrow}$ $\stackrel{2}{\swarrow}$ $\stackrel{0}{\swarrow}$
No facilities or programs	4) 🛌 0
Source of information: STANTEC	
Fig. 21144 as and Busan	rams Scorę (maximum 8 points) 🤷
racinties and Progr	ams score (maximum o homes)

243	RESEARCH	AND	СТІ	IDIEC
4.4.3	RESEARCH	AND	511	JUJIES

(check appropriate spaces)	Score
Long term research has been done	12 point
Research papers published in refereed scientific	12 poul
journal or as a thesis	10
One or more (non-research) reports have been written	 10
on some aspect of the wetland's flora, fauna,	
hydrology, etc.	5
No research or reports	 0
	v

Attach list of known reports by above categories

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

2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT

Circle the highest applicable score

Distance of wetland from settlement	1) population >10,000	2) population 2,500 - 10,000	3) population <2,500 or cottage community
Within or adjoining settlement	40 points	26	16
2) 0.5 to 10 km from settlement	26	16	(10)
3) 10 to 60 km from settlement	12	. 8	4
4) >60 km from settlement	5	2	0

Nan	ne of settlement:	
	Proximity to Human Settler	nent Score (maximum 40 points) 10
<u>2.6</u>	OWNERSHIP (FA = fractional area)Fractional Area FA of wetland in public or private ownership,	Score
	held under contract or in trust for wetland protection FA of wetland area in public ownership, not as above	x 10 = x 8 =
	FA of wetland area in private ownership, not as above	x 4 =

Source of information: STANTEC

Ownership Score (maximum 10 points)

<u>2.7 SIZE</u>

__ nectares

Evaluation Ta	ble fo	or Size	Score (nendent S	core		
Wetland size (ha)	Total for Size Dependent Score									
	<31	31-45	46-60	61-75	76-90	91-105	106-109	121-135	136-150	>150
<2 ha	1	2	4	8	10	12	14	14	14	15
2-4		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	1.0	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	18	19	20	20
63-81	5	8	11	15	17	18	19	20	20	20
82-105	6	9	11	15	18	18	19	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)

2.8 ABORIGINAL AND CULTURAL HERITAGE 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) _____ Significant = 30 points 2) ____ Not Significant = 0 3) ___ Unknown = 0

2.8.2 CULTURAL HERITAGE

1) _____ Significant = 30 points 2) ____ Not Significant = 0 3) ____ Unknown = 0

Aboriginal Values/Cultural Heritage Score (maximum 30 points)

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 100 ha complex is isolated, 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	
	_Wetland is located on one of the defined 5 large lakes	s or 5 major river
	(Go to Step 4).) (Q + Q+ A)
	Wetland is entirely isolated (i.e. not part of a comple	(Go to Step 4)
X	All other wetland types (Go through steps 2, 3, and 4	1 B)
Step 2.	Determination of Upstream Detention Factor (DF)	
(a)	Wetland area (ha)	2-1
(b)	Total area (ha) of upstream detention areas	4,2
(-)	(include the wetland itself)	
(c)	Ratio of (a):(b)	0.5
(d)	Upstream detention factor: (c) x 2 =	
	(maximum allowable factor = 1)	
Step 3	Determination of Wetland Attenuation Factor (AF) ,
(a)	Wetland area (ha)	21
(b)	Size of catchment basin (ha) upstream of wetland	222
	(include wetland itself in catchment area)	2+3
(c)	Ratio of (a):(b)	0 0 0 X
(d)	Wetland attenuation factor: (c) x 10 =	0,08
	(maximum allowable factor = 1)	
Step 4.	Calculation of final score	
(a)	Wetlands on large lakes or major rivers	0
(b)	Wetland entirely isolated	100
(b)	All other wetlands calculate as follows:	
	Initial score	100*
	Upstream detention factor (DF) (Step 2)	
	Wetland attenuation factor (AF) (Step 3)	0.08
	Final score: $((DF + AF)/2) \times Initial score =$	54

Flood Attenuation Score (maximum 100 points)

*Unless wetland is a complex with isolated portions (see above).

3.2 WATER QUALITY IMPROVEMENT

3.2.1 SHORT TERM WATER QUALITY IMPROVEMENT

3.2.1 SHUK	TERM WATER QUALITY IMPROVEMENT					
Step 1:	Determination of maximum initial so	core				
×	Wetland on one of the 5 defined large la All other wetlands (Go through Steps 2,	kes or 5 major rivers (Go to Step 5a) 3, 4, and 5b)				
Step 2:	Determination of watershed improve Calculation of WIF is based on the fractional are that makes up the total area of the wetland.	ement factor (WIF) a (FA) of each site type				
(FA = are	a of site type/total area of wetland)	Fractional				
FA of rive FA of pale FA of lace FA of lace Step 3:	Determination of catchment land to (Choose the first category that fits upstream land) Over 50% agricultural and/or urban	Area				
2)	Between 30 and 50% agricultural and/or urban Over 50% forested or other natural vegetation	0.8 0.6				
	LUF (maximum 1.	0)				
Step 4:	Determination of pollutant uptake factor (PU)	T)				
Calculation of PUT is based on the fractional area (FA) of each vegetation type that makes up the total area of the wetland. Base assessment on the dominant vegetation form for each community except where dead trees or shrubs dominate. In that case base assessment on the dominant live vegetation type. (FA = area of vegetation type/total area of wetland)						
FA of wetl herbs or m	and with live trees, shrubs, osses (c,h,ts,ls,gc,m)	Fractional Area x 0.75 =				
FA of wetl or floating	and with emergent, submergent vegetation (re,be,ne,su,f,ff)	x 1.0 =				
FA of wetla	and with little or no vegetation (u)	x 0.5 =				
		um (PUT cannot exceed 1.0) 0.75				

Step 5:	Calculation of final score	
(a)	Wetland on large lakes or major rivers	0
(b)	All other wetlands - calculate as follows	60 .
	Initial score Water quality improvement factor (WQF) Land use factor (LUF)	
	Land use factor (LUF) Pollutant uptake factor (PUT)	075
	Final score: 60 x WQF x LUF x PUT =	45
	Score (maximum 60 points) 45	

3.2.2 LONG TERM NUTRIENT TRAP

Step 1:	Wetland on large lakes or 5 major rivers All other wetlands (Proceed to Step 2)	0 points
Step 2:	Choose only one of the following settings that best des	scribes the wetland being evaluated
1)	Wetland located in a river mouth	10 points
2)	Wetland is a bog, fen, or swamp with more than 50% of the wetland being covered with	
	organic soil	10
3)	Wetland is a bog, fen, or swamp with less than	
-	50% of the wetland being covered with	
	organic soil	3
4)	Wetland is a marsh with more than	
7)	50% of the wetland covered with organic soil	3
5) 🔀	50% of the wetland covered with organic soil None of the above	0
•	Long Term Nutrient Trap S	Score (maximum 10 points)

3.2.3 GROUNDWATER DISCHARGE

(Circle the characteristics that best describe the wetland being evaluated and then sum the scores. If the sum exceeds 30 points assign the maximum score of 30.)

Wetland Characteristics		Potential for Discharge	
	None to Little	Some	High
Wetland type	1) Bog = 0	2) Swamp/Marsh=2	3) Fen = 5
Topography	1) Flat/rolling = 0	2) Hilly = 2	3) Steep = 5
Wetland Area:Upslope Catchment Area	Large (>50%) = 0	Moderate (5-50%) = 2	Small (<5%)=5
Lagg Development	1) None found 0	2) Minor = 2	3) Extensive = 5
Seeps	1) None =0	2) = or < 3 seeps = 2	3) > 3 seeps = 5
Surface marl deposits	1) None (1)	2) = or < 3 sites = 2	3) > 3 sites = 5
Iron precipitates	1) None € 0	2) = or < 3 sites = 2	3) > 3 sites = 5
Located within 1 km of a major aquifer	N/A€0	N/A = 0	Yes = 10

(Scores are cumulative, maximum score 30 points)

Groundwater Discharge Score (maximum 30 points)_

7

3.3 CARBON SINK

Choose only one of the following

1)	Bog, fen or swamp with more than 50% coverage	
	by organic soil	5 points
2)	Bog, fen or swamp with between 10 to 49%	o ponito
	coverage by organic soil	2
3)	Marsh with more than 50% coverage by organic	- 1
\checkmark	soil	3
4)	Wetlands not in one of the above categories	0

Carbon Sink Score (maximum 5 points)

3.4	SHORELINE EROSION	CONTROL

Step 1:	Score
Wetland entirely isolated or palustrine Any part of the wetland riverine, or lacustrine	0
(proceed to Step 2)	

Step 2:

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

Score

	40	3001
1)	Trees and shrubs	15
2) —	Emergent vegetation	8
_, 3)	Submergent vegetation	6
4)	Other shoreline vegetation	3
5) —	No vegetation	0

Shoreline Erosion Control Score (maximum 15 points)

\bigcirc

3.5 GROUND WATER RECHARGE

3.5.1	WET	LAND	SITE	TYPE

Score
Westland > 50% lacustrine (by area) or located on one of the

(a) Wetland > 50% lacustrine (by area) or located on one of the five major rivers 0

(b) Wetland not as above. Calculate final score as follows: (FA = area of site type/total area of wetland)

Fractional Area

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

3.5.2 WETLAND SOIL RECHARGE POTENTIAL

(Circle only one choice that best describes the hydrologic soil class of the area surrounding the wetland being evaluated.)

Dominant Wetland Type	1) Sand, loam, gravel, till	2) Clay or bedrock
Lacustrine or on a major river	0	0
2) Isolated	10	5
3) Palustrine	7	(4)
4) Riverine (not a major river)	5	2

Ground Water Recharge, Wetland Soil Recharge Potential Score (maximum 10 points)

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY 4.1.1 WETLANDS

Site District 6E-15
Presence of wetland type (check one or more)
Bog
Fen
Swamp
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.

	G C D i	Score for Rarity of Wetland Type			
Site District	Score for Rarity within the Landscape	Marsh	Swamp	Fen	Bog
6-1	60	40	0	80	80
6-2	60	40	0	80	80
6-3	40	10	0	40	80
6-4	60	40	0	80	80
6-5	20	40	0	80	80
6-6	40	20	0	80	80
6-7	60	10	0	80	80
6-8	20	20	0	80	80
6-9	0	20	0	80	80
6-10	20	0	20	80	80
6-11	0	30	0	80	80
6-12	0	30	0	60	80
6-13	60	10	0	80	80
6-14	40	20_	0	40	80
6-15	40	0	0	80	80
7-1	60	0	60	80	80
7-2	60	0	0	80	80
7-3	60	0	0	80	80
7-4	80	0	0	80	80
7-6	80	30	0	80	80

Rarity within the Landscape Score (maximum 80 points)
Rarity of Wetland Type Score (Maximum 80 points)

4.1.2 SPECIES

4.1.2.1 BREEDING HABITAT	FOR AN ENDANGERED OR THREATENED SPECIES
Name of species	
1) None observed	- STANTEC
2)	
3)	
Attach documentation.	
Scoring:	
For each species	250 points
(Score is cumulative, no maximum sco	ore)
Breeding Habitat for E	ndangered or Threatened Species Score (no maximum)
4.1.2.2 TRADITIONAL MIGRAT	CION OR FEEDING HABITAT FOR AN ENDANGERED OR
Name of species	Source of information
1) Noise observed	STANTEC
2)	
Attach documentation.	
Scoring:	
For one species	150 points
For each additional species	75
(Score is cumulative, no maximum score	re)
Traditional Habitat for F	ndangered or Threatened Species Score (no maximum)

4.1.2.3 PROVINCIALLY SIGNIFICANT ANIMAL SPECIES

Name of species	Source of information
1) NOTE SESENTIED	STANTEC
2)	·
3)	
4)	. (*)
5)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)

4.1.2.4 PROVINCIALLY SIGNIFICANT PLANT SPECIES

(Scientific names must be recorded)

Common Name		Scientific Name		Source of information		
1)	None	absolved		_	STANTER	
2)			1	_		
3)_				2/		
4)					=	
5)						

Attach separate list if necessary. Attach documentation.

Scoring:

Number of provincially significant plant species in the wetland:

				- 50	9.
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			2,70

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

Provincially Significant Plant Species Score (no maximum) 💍

4.1.2.5 REGIONALLY SIGNIFICANT SPECIES (SITE REGION)

Scientific names must be recorded for plant species. Lists of significant species must be approved by MNR.

SIGNIFICANT IN SITE REGION:

Common Name	Scientific Name	Source of information
1) NOHE OBSALVE	0	STANTEC
2)		
3)		
4)		<u></u>
5)		
6)		
7)		
8)		

Attach separate list if necessary. Attach documentation

Scoring:

No. of species significant in Site Region

One species	=	20	6 species	=	55
2 species	=	30	7 species	=	58
3 species	=	40	8 species	=	61
4 species	=	45	9 species	=	64
5 species	=	50	10 species	=	67

Add one point for every species past 10. (No maximum score)

Regionally Significant Species Score (Site Region) (no maximum)

4.2.1.6 LOCALLY SIGNIFICANT SPECIES (SITE DISTRICT)

Scientific names must be recorded for plant species. Lists of significant species must be approved by MNR.

Common Name	Scientific Name	Source of information
1) None algalver		STANTEC
2)		
3)		20
4)		
5)		
6)		
7)		
8)		
9)	8 0	
10)		

Attach separate list if necessary. Attach documentation.

Scoring:

No. of species significant in Site District

One species	_ =	10	6 species	=	41
2 species	=	17	7 species	=	43
3 species	=	24	8 species	= ,	45
4 species	=	31	9 species	=	47
5 species	=	38	10 species	=	49

For each significant species over 10 in the wetland, add 1 point.

Locally Significant Species Score(Site District) (no maximum)

0

4.2 SIGNIFICANT FEATURES AND/OR FISH & WILDLIFE HABITAT

4.2.1 NESTING OF COLONIAL WATERBIRDS

Status	Name of species	Source of Information	Score
1) Currently nesting		-	50 points
2) Known to have nested within past 5 years			25
Active feeding area (Do not include feeding by great blue herons)			15
4) None known			0

Attach documentation (nest locations, etc., if known)

Score highest applicable category only; maximum score 50 points.

Score for Nesting Colonial Waterbirds (maximum 50 points)

4.2.2. WINTER COVER FOR WILDLIFE

(Check only	highest level of significance) (one only)	Scor
1) 2) 3) 4)	Provincially significant 100 Significant in Site Region Significant in Site District Locally significant Little or poor winter cover present	50 25 10 0

Source of information: STANTEC

Winter Cover for Wildlife Score (maximum 100 points)

4.2.3 WATERFOWL STAGING AND/OR MOULTING

(Check only highest level of significance for both staging and moulting; score is cumulative across columns, maximum score 150)

	Staging	Score (one only)	Moulting	Score (one only)
 Nationally significant Provincially significant Regionally significant Known to occur Not possible Unknown 	X	150 100 50 10 0	<u>×</u>	150 100 50 10 0

Waterfowl Moulting and Staging Score (maximum 150 points)

4.2.4 WATERFOWL BREEDING

(Check only highest level of significance)	Score
1) Provincially significant	100
2) Regionally significant	50
3) Habitat suitable	10
4) Habitat not suitable	0

Source of information: ________

Waterfowl Breeding Score (maximum 100 points)

4.2.5 MIGRATORY PASSERINE, SHOREBIRD OR RAPTOR STOPOVER AREA

(check highest applicable category)

		Score
1)	Provincially significant	100
2)	Significant in Site Region	50
3)	Significant in Site District	10
4)	Not significant	0

Passerine, Shorebird or Raptor Stopover Score (maximum 100 points)

4.2.7 FISH HABITAT

4.2.7.1 Spawning and Nursery Habitat

Table 5. Area Factors for Low Marsh, High Marsh and Swamp Communities.

No. of ha of Fish Habitat	Area Factor	
< 0.5 ha		
0.5 - 4.9	0.2	
5.0 - 9.9	0.4	
10.0 - 14.9	0.6	
15.0 - 19.9	0.8	
20.0+ ha	1.0	

Step 1: Fish habitat is not present within the wetland (Score = 0) Fish habitat is present within the wetland (Go to Step 2)

Step 2:	Choose only one option	
1)	Significance of the spawning and nursery habitat within the wetland is know (Go to Step3)	own
2)	Significance of the spawning and nursery habitat within the wetland is not known (Go through Steps 4, 5, 6, and 7)	1
Step 3:	Select the highest appropriate category below, attach documentation: Significant in Site Region	100 points
2)	Significant in Site District	50
3)	Locally Significant Habitat (5.0+ ha)	25
4)	Locally Significant Habitat (<5.0 ha)	15

Score for Spawning and Nursery Habitat (maximum score 100 points)

Step 4: Proceed to Steps 4 to 7 only if Step 3 was not answered.

(Low Marsh: marsh area from the existing water line out to the outer boundary of the wetland)

Low marsh not present (Continue to Step 5)

Low marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each Low Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16, Table 16-2) for each Low Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (see Table 5)	Score	Final Score (area factor x score)
1	Tallgrass				6 pts	
2	Shortgrass-Sedge				11	
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				5	
5	Duckweed		1.0		2	
6	Smartweed-Waterwillow	=			6	
7	Waterlily-Lotus		¥		11	
8	Waterweed-Watercress				9	
9	Ribbongrass		Si .		10	
10	Coontail-Naiad-Watermilfoil				13	
11	Narrowleaf Pondweed		5)		5	
12	Broadleaf Pondweed				8	
	Total S	core (maximu	ım 75 po	ints)		

<u>Step 5:</u> (High Marsh: area from the water line to the inland boundary of marsh wetland type. This is essentially what is commonly referred to as a wet meadow, in that there is insufficient standing water to provide fisheries habitat except during flood or high water conditions.)

High marsh not present (Continue to Step 6)

High marsh present (Score as follows)

Scoring for Presence of Key Vegetation Groups

Scoring is based on the one most clearly dominant plant species of the dominant form in each High 1Marsh vegetation community. Check the appropriate Vegetation Group (see Appendix 16, Table 16-2) for each High Marsh community. Sum the areas of the communities assigned to each Vegetation Group and multiply by the appropriate size factor from Table 5.

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (see Table 5)	Score	Final Score (area factor x score)
1	Tallgrass		2.1	0.1	6 pts	0,6
2	Shortgrass-Sedge				11	
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				5	
Total Score (maximum 25 points)				0.6		

<u>Step 6:</u> (Swamp: Swamp communities containing fish habitat, either seasonally or permanently.

Determine the total area of seasonally flooded swamps and permanently flooded swamps containing fish habitat.)

Swamp containing fish habitat not present (Continue to Step 7)
Swamp containing fish habitat present (Score as follows)

Swamp containing fish habitat	Present (check)	Total area (ha)	Area Factor (see Table 5)	Score	TOTAL SCORE (factor x score)
seasonally flooded				10	
permanently flooded			-	10	
.83	S	SCORE (maxin	num 20 points)		

Step 7: Calculation of final score

Score for Spawning and Nursery Habitat (Low Marsh) (maximum 75) =

Score for Spawning and Nursery Habitat (High Marsh) (maximum 25) = 0.

Score for Swamp Containing Fish Habitat (maximum 20)

= O Sum (maximum score 100 points) = \frac{1}{2}

4.2.6.2 Migration and Staging Habitat

Step 1:

- 1) \angle Staging or Migration Habitat is not present in the wetland (Score = 0)
- 2) ___ Staging or Migration Habitat is present in the wetland, significance of the habitat is known (Go to Step 2)
- 3) ___ Staging or Migration Habitat is present in the wetland, significance of the habitat is not known (Go to Step 3)

NOTE: Only one of Step 2 or Step 3 is to be scored.

Step 2: Select the highest appropriate category below, attach documentation:

1)		Significant in Site Region	25 points	Score
2)	_	Significant in Site District	15	
3)	1227115	Locally Significant	10	
4)	_	Fish staging and/or migration habitat present, but not as above	5	

Score for Fish Migration and Staging Habitat (maximum score 25 points)

0

<u>Step 3:</u> Select the highest appropriate category below based on **presence** of the designated site type (does not have to be dominant). See Section 1.1.3. Note name of river for 2) and 3).

1)		Wetland is riverine at rivermouth or lacustrine at rivermouth	Score 25 points
2)		Wetland is riverine, within 0.75 km of rivermouth	15
3)		Wetland is lacustrine, within 0.75 km of rivermouth	10
4)	_	Fish staging and/or migration habitat present, but not as above	0 2

Score for Staging and Migration Habitat (maximum score 25 points)_

4.3 ECOSYSTEM AGE

(Fractional Area = area of wetland/total area of wetland area)

Fractional Area	Scoring
Bog	x 25
Fen, treed to open on deep soils, floating mats or marl	x 20
Fen, on limestone rock	x 5
Swamp	x 3
Marsh	

Ecosystem Age Score (maximum 25 points)

4.4 GREAT LAKES COASTAL WETLANDS

Score for coastal (see text for definition) wetlands only

Choose one only	
wetland <10 ha	= 10 points
wetland 10-50 ha	= 25
wetland 51-100 ha	= 50
wetland >100 ha	= 75

Great Lakes Coastal Wetlands Score (maximum 75 points)

5.0 EXTRA INFORMATION

<u>5.1</u>	PURPLE	LOOSEST	RIFE

Absent/Not seen	
Present	(a) One location in wetland Two to many locations
	Abundance code (b) (1) < 20 stems (2) 20-99 stems (3) 100-999 stems (4) >1000 stems
5.2 SEASONALLY FLOOR	DED AREAS
Indicate length of seasonal floo	ding
Check one or more	
Ephemeral Temporal Seasonal Semi-permanent No seasonal flooding	(less than 2 weeks) (2 weeks to 1 month) (1 to 3 months) (>3 months)
5.3 SPECIES OF SPECIAL	SIGNIFICANCE
Present and nesting Known to have nested in la Feeding area for Osprey Not as above	ast 5 yr.
5.3.2 Common Loon	
Nesting in wetland Feeding at edge of wetland Observed or heard on lake	d or

river adjoining the wetland

Not as above

INVESTIGATORS	<u>AFFILIATION</u>	
JAMES LESLIE	STANTEL CONSULTING	
JAMES LESLIE ALAN WORMINGTON	CONTRACT BIRDER	
DATES WETLAND VISITED	! !	
AUGUST 19, 5	2011	
	ED TO COMPLETING THE FIELD SURVEY IN "PERSO	ON HOURS"
	ED TO COM DETEND THE TIEDS SONVEY ET	
2 Hes		
WEATHER CONDITIONS		
i) at time of field work (Continue in the space below if no	recessary)	~
ii) summer conditions in gener	ral MARM SURJECT TO LAKE LEFFER PRECIPITATION	
OTHER POTENTIALLY USI	EFUL INFORMATION:	
AND TOPOGRA	LATER WITH A CONSTRUCTED DRA PHIC LOW ARDA- INTERMIXED C OF LIPLAND SPECIES. I AGRICULTURAL LAND USE	- (N
		
CHECKLIST OF PLANT AND	O ANIMAL SPECIES RECORDED IN THE WETLAND:	
Attach list of all flora and fauna of	observed in the wetland.	
* Indicate if voucher specimens	or photos have been obtained, where located, etc.	
-> SEE ELC	CARD FOR VASCULAR SPP LI	ST

WETLAND EVALUATION SCORING RECORD

WETLAND NAME AND/OR NUMBER WETLAND #>

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 Growing Degree-Days/Soils	22
1.1.2 Wetland Type	15
1.1.3 Site Type	2

Total for Productivity

39

1.2 BIODIVERSITY

1.2.1 Number of Wetland Types	9
1.2.2 Vegetation Communities (maximum 45)	2
1.2.3 Diversity of Surrounding Habitat (maximum 7)	5
1.2.4 Proximity to Other Wetlands	8
1.2.5 Interspersion	6
1.2.6 Open Water Type	0

Total for Biodiversity

33

1.3 SIZE (Biological Component)

8

TOTAL FOR BIOLOGICAL COMPONENT (not to exceed 250)

77

2.0 SOCIAL COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

2.1.1 Wood Products	0
2.1.2 Wild Rice	0
2.1.3 Commercial Fish	0
2.1.4 Bullfrogs	0
2.1.5 Snapping Turtles	
2.1.6 Furbearers	0_
Total for Economically Valuable Products	12
2.2 <u>RECREATIONAL ACTIVITIES</u> (maximum 80)	0
2.3 LANDSCAPE AESTHETICS	
2.3.1 Distinctness	.0_
2.3.2 Absence of Human Disturbance	0
170 — 120 DI 170 DI 1	
Total for Landscape Aesthetics	<u> </u>
2.4 EDUCATION AND PUBLIC AWARENESS	
2.4.1 Educational Uses	ð
2.4.2 Facilities and Programs	0
2.4.3 Research and Studies	0
*	
Total for Education and Public Awareness	8
2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT	10
	L
2.6 <u>OWNERSHIP</u>	
2.7 SIZE (Social Component)	1
2.8 ABORIGINAL AND CULTURAL VALUES	0
e i	2.2
TOTAL FOR SOCIAL COMPONENT (not to exceed 250)	1+

3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

54

3.2 WATER QUALITY IMPROVEMENT

3.2.1 Short Term Improvement3.2.2 Long Term Improvement

45

3.2.3 Groundwater Discharge (maximum 30)

Total for Water Quality Improvement

52

3.3 CARBON SINK

0

3.4 SHORELINE EROSION CONTROL

0

3.5 GROUNDWATER RECHARGE

3.5.1 Site Type

3.5.2 Soils

50 4

Total for Groundwater Recharge

54

TOTAL FOR HYDROLOGICAL COMPONENT (not to exceed 250)

4.0 SPECIAL FEATURES

4.1 RARITY

4.1.1 Wetlands .	3100	
4.1.1.1 Rarity within the Landscape	Ц З	
4.1.1.2 Rarity of Wetland Type (maximum 80)	<u> </u>	
Total for Wetland Rarity	40	
4.1.2 Species		
4.1.2.1 Endangered Species Breed	<u> </u>	
4.1.2.2 Traditional Use by Endangered or		
Threatened Species	<u>o_</u>	
4.1.2.3 Provincially Significant Animals	<u>o_</u>	
4.1.2.4 Provincially Significant Plants	<u>o</u> _	
4.1.2.5 Regionally Significant Species	0 0 0	
4.1.2.6 Locally Significant Species	<u> </u>	
Total for Species Rarity 4.2 SIGNIFICANT FEATURES OR HABITAT	<u> </u>	
4.2.1 Colonial Waterbirds	<u> </u>	
4.2.2 Winter Cover for Wildlife	0 0 0	
4.2.3 Waterfowl Staging and Moulting	<u> </u>	
4.2.4 Waterfowl Breeding	<u> </u>	
4.2.5 Migratory Passerine, Shorebird or Raptor Stopover	0	
4.2.6 Fish Habitat		
Total for Significant Features and Habitat	ar	
4.3 ECOSYSTEM AGE		
4.4 GREAT LAKES COASTAL WETLANDS		۸.
TOTAL FOR SPECIAL FEATURES (maximum 250)		4

SUMMARY OF EVALUATION RESULT

Wetland WETLAND # +	
	У. <u>ш</u>
TOTAL FOR 1.0 BIOLOGICAL COMPONENT	77
TOTAL FOR 2.0 SOCIAL COMPONENT	27
TOTAL FOR 3.0 HYDROLOGICAL COMPONENT	160
TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT	41
WETLAND TOTAL	305

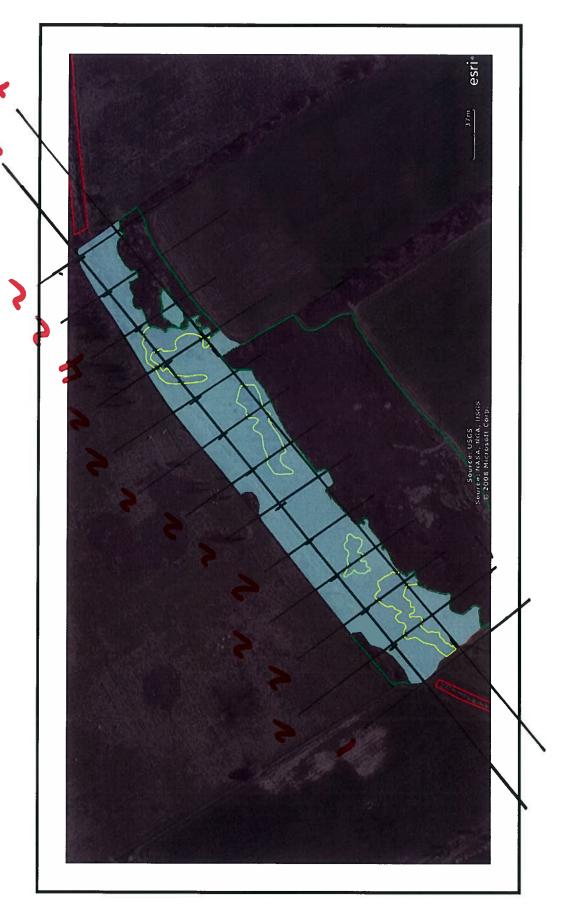
INVESTIGATORS

JAMES LESLIE - JEGETATION ONES EVALVATOR	
ALAN WORMWOOD - AVIAN SURVEYOR	

AFFILIATION

DATE NOV-1, 2012

LOURS EVALUATION INTERSPERSION (NAP WETLAND #7



ALL OTHER FERMS/TYPES ARE SMALLER THAN 0.2 ha. - WETLAND CONSISTS OF I MAPABLE TYPE AND FORM,

Data Summary Form

Wetland Name WETLAND 7

Page \ of \

Fish Habitat	1 - Sah	is:											
Site Type	MARSH	_										1	
Soils	CLAY									ď			
ha open water	0				¥		ia.						3
area (ha)	2.1				186								
% open water	レストンス			*									
31	100			ď									
Forms	36		S.					Ø.		22			
Dominant Form	26								E			н	
# Forms	_					¥?			m	¥	J		
Field Code	4				8				s ⁷⁷				
Map Code	MAN2-2		ix.										