This report serves to update the **<u>boundary</u>** of the Richmond Fen Provincially Significant Wetland contained within the NE portion of Lot 16, Concession IV, Goulbourn Township, Ottawa. It is not meant to be an evaluation or re-evaluation of the entire Richmond Fen PSW, nor the land contained within the area of study.

Upon reviewing the original 1984 WEDSR and mapping at the Kemptville MNR office in the fall of 2023, it has become apparent that MNR staff designated the area a PSW solely using aerial photographs with no attention to, or validation of the species contained with the designated area. Unfortunately the MNR assumed that the entire area under study was 100% Acer Saccharinum (Silver Maple) which is a Wetland Indicator and stated that the wetland type is Swamp.

Fieldwork was completed in the fall of 2024 detailing the transition from upland species, to wetland species. A map with associated data has been created showing the consistent location of upland trees at the boundary of the subject area.

This report does not provide an exhaustive list of plan species as would be expected in a complete wetland evaluation but focuses on the OWES 50% wetland vegetation rule. The area is dominated by Acer Rubrum (Red Maple) which alone cannot be used to determine a wetland boundary. The forest

canopy is to be considered mature forest with trees having a DBH up to 40" indicating the longstanding nature of the habitat relative to the original OWES study in 1984. The understory of the area of study is dominated by upland species, while boundary delineation was easy to determine by the transition of canopy and understory. This is documented in the tree pictures and associated map of their location. The terrain is hilly sand offering excellent drainage, undulating across the area of study as shown in the DEM map.

Red Maple makes up approximately 60% of the forest canopy while the remaining canopy consists of Acer Saccharum(Sugar Maple), Fagus Grandifolia (American Beech), Tilia Americana (Basswood), Fraxinus Americana (White Ash), Pinus Strobus (Eastern White Pine), Prunus Serotina (Black Cherry), Betula Papyrifera (White Birch), Betula Alleghaniensis (Yellow Birch), Tsuga Canadensis (Eastern Hemlock). The hardwood upland indicators are evenly distributed across the study area. Additionally there were only a handful of Eastern White Cedar, Basam Fir, White Spruce and 2 Silver Maple located randomly within the subject area.

The Digital Elevation Model map is based on current LiDAR data and supports the boundary alignment consistent with the floodplain and flat terrain at the eastern portion of the study area. The infra red map is based on 2014 imagery showing a large Eastern White Pine canopy . This canopy spreads seeds throughout the study area and white pine seedlings have been established at the eastern most portion of the study area with supporting pictures provided.

It is also noted there are no watercourses within the study area, the existing watercourse remains entirely within the Richmond Fen PSW. As the purpose of the WEDSR is to produce a "score" to determine the wetland status for evaluations and re-evaluations, much of it is not applicable to a boundary review. As such, only sections 1 & 2 have been filled out with any relevance to a non PSW. The MNR evaluation of 1984 would have excluded the study area based on the 50% canopy rule. The obvious growth of Eastern White Pines in excess of 30" DBH indicate long standing upland habitat and not a mass die off of Silver Maple in 30 years. The assumption by the MNR that the area is 100% Silver Maple was erroneous at the time of the original desk evaluation performed by MNR staff. The property west of the subject study area had the original wetland boundary removed but the evaluator did not extend into the neighboring property which is now the subject of this boundary review.

Bruce Chrustie

OWES Evaluator

Appendix A

Tree Mapping and Data
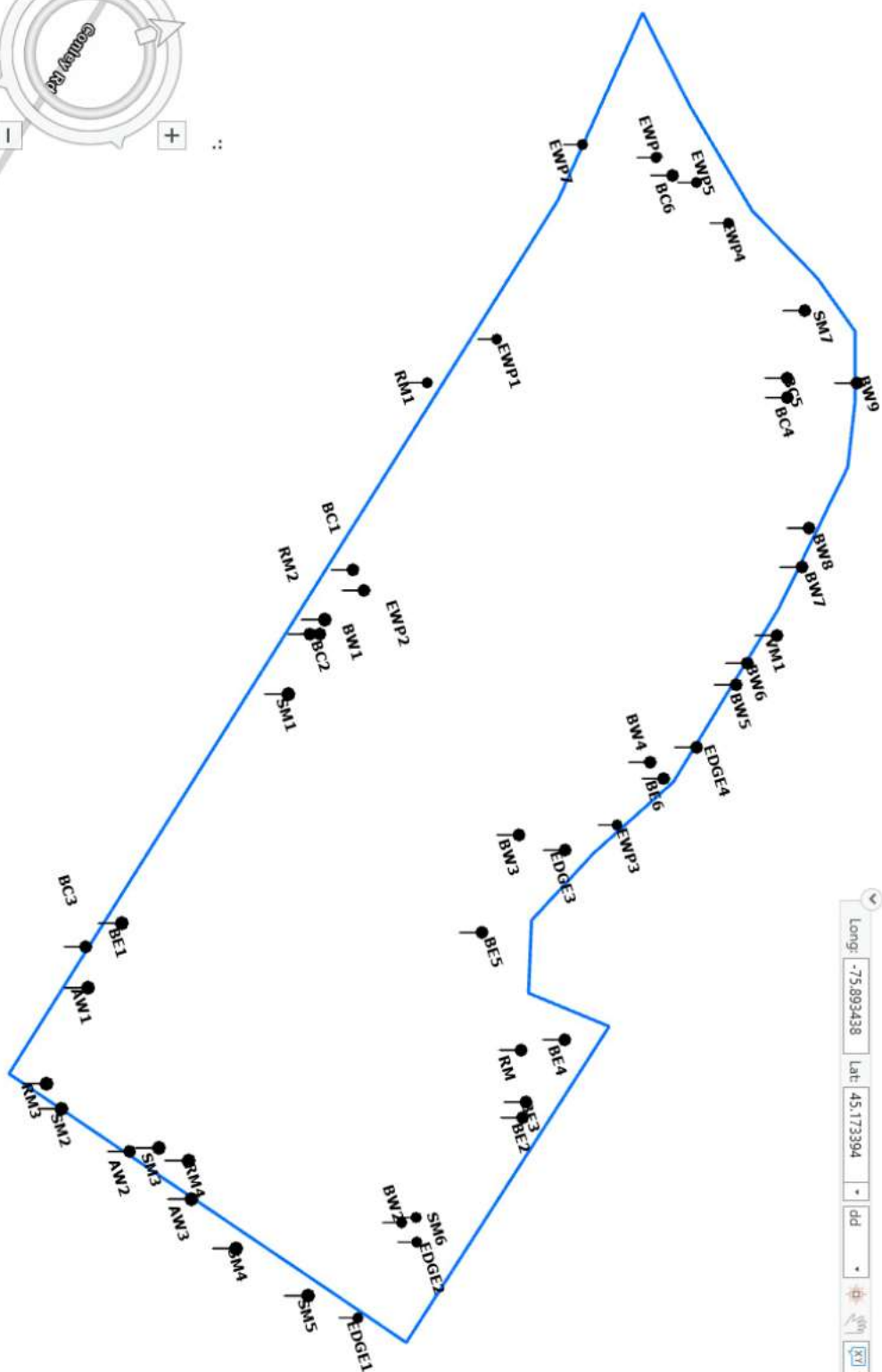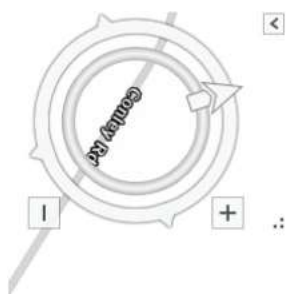
EWP1

Pinus Strobus (Eastern White Pine)

28" DBH

RM1

Acer Rubrum (Red Maple, Swamp Maple)

Beech background, upland understory

BC1

Prunus Serotina (Black Cherry)

EWP2

Pinus Strobus (Eastern White Pine)

RM2

Acer Rubrum (Red Maple, Swamp Maple)

Beech background, upland understory

BW1

Tilia Americana (Basswood)

BC2

Prunus Serotina (Black Cherry)

SM1

Acer Saccharum (Sugar Maple)

BE1

Fagus Grandifolia   (American Beech)

BC3

Prunus serotina (Black Cherry)

AW1

Fraxinus Americana (White Ash)

Black Cherry in background

RM3

Acer Rubrum (Red Maple, Swamp Maple)

Upland understory

SM2

Acer Saccharum (Sugar Maple)

AW2

Fraxinus Americana (White Ash)

40" DBH

SM3

Acer Saccharum (Sugar Maple)

RM3

Acer Rubrum (Red Maple, Swamp Maple)

Upland understory

AW3

Fraxinus Americana (White Ash)

SM4

Acer Saccharum (Sugar Maple)

SM5

Acer Saccharum (Sugar Maple)

EDGE1

Transition to marsh in background, facing east

EDGE2

Transition to marsh in background, facing east

BW2

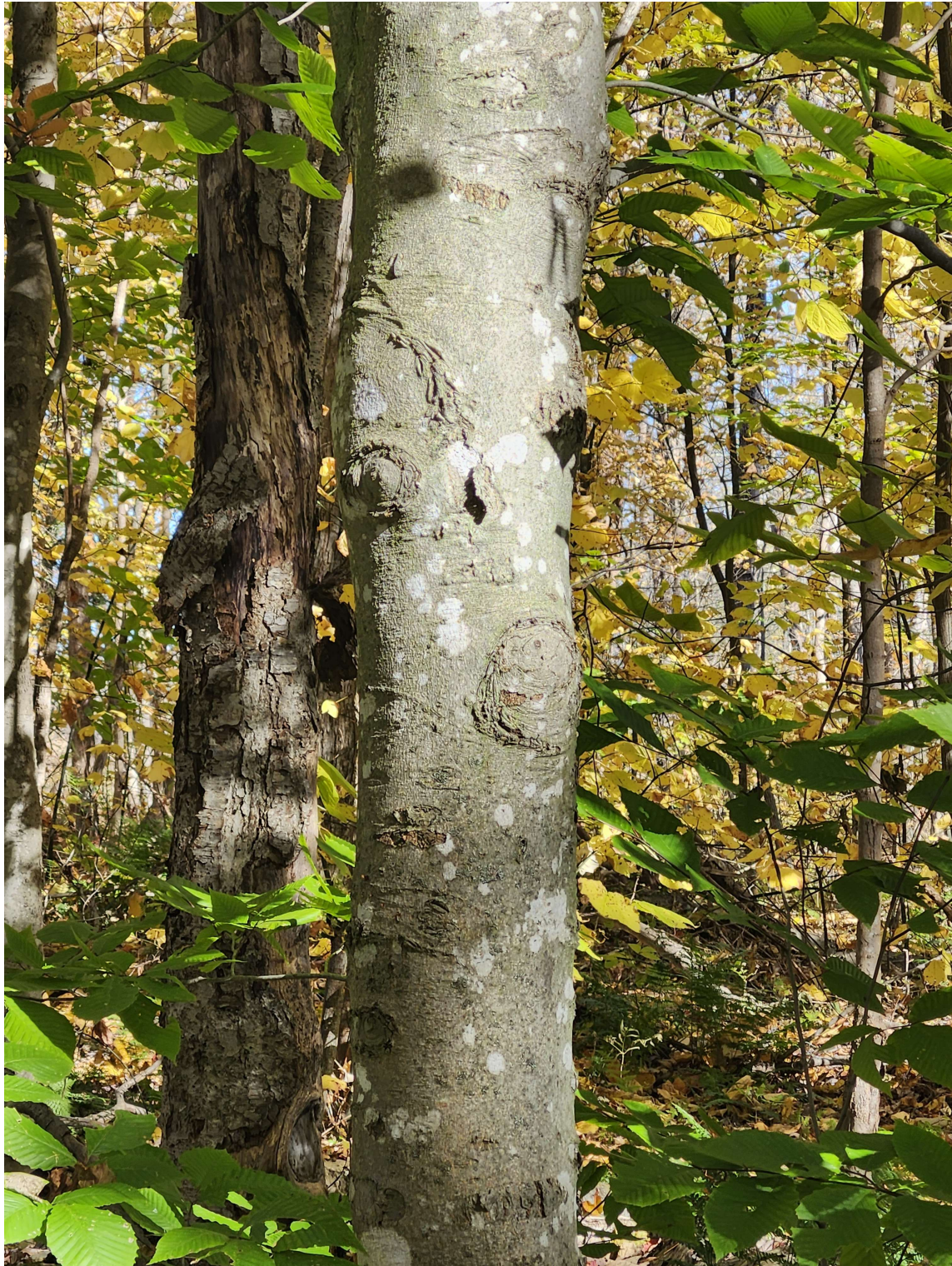Tilia Americana (Basswood)

SM6

Acer Saccharum (Sugar Maple)

BE2

Fagus Grandifolia   (American Beech)

BE3

Fagus Grandifolia   (American Beech)

28" DBH

RM4

Acer Rubrum (Red Maple, Swamp Maple)

Upland understory

BE4

Fagus Grandifolia   (American Beech)

Marsh in background, facing north

BE5

Fagus Grandifolia   (American Beech)

BW3

Tilia Americana (Basswood)

EDGE3

Transition to marsh in background, facing east

EWP3

Pinus Strobus (Eastern White Pine)

BE6

Fagus Grandifolia   (American Beech)

BW4

Tilia Americana (Basswood)

EDGE4

Transition to marsh & swamp in background, facing east

BW5

Tilia Americana (Basswood)

34" DBH

BW6

Tilia Americana (Basswood)

Transition in background

VM1

Acer Saccharinum (Silver Maple, Swamp Maple)

BW7

Tilia Americana (Basswood)

Transition in background

BW8

Tilia Americana (Basswood)

Transition in background

BC4

Prunus Serotina (Black Cherry)

BC5

Prunus Serotina (Black Cherry)

BW9

Tilia Americana (Basswood)

SM7

Acer Saccharum (Sugar Maple)

EWP4

Pinus Strobus (Eastern White Pine)

EWP5

Pinus Strobus (Eastern White Pine)

EWP6

Pinus Strobus (Eastern White Pine)
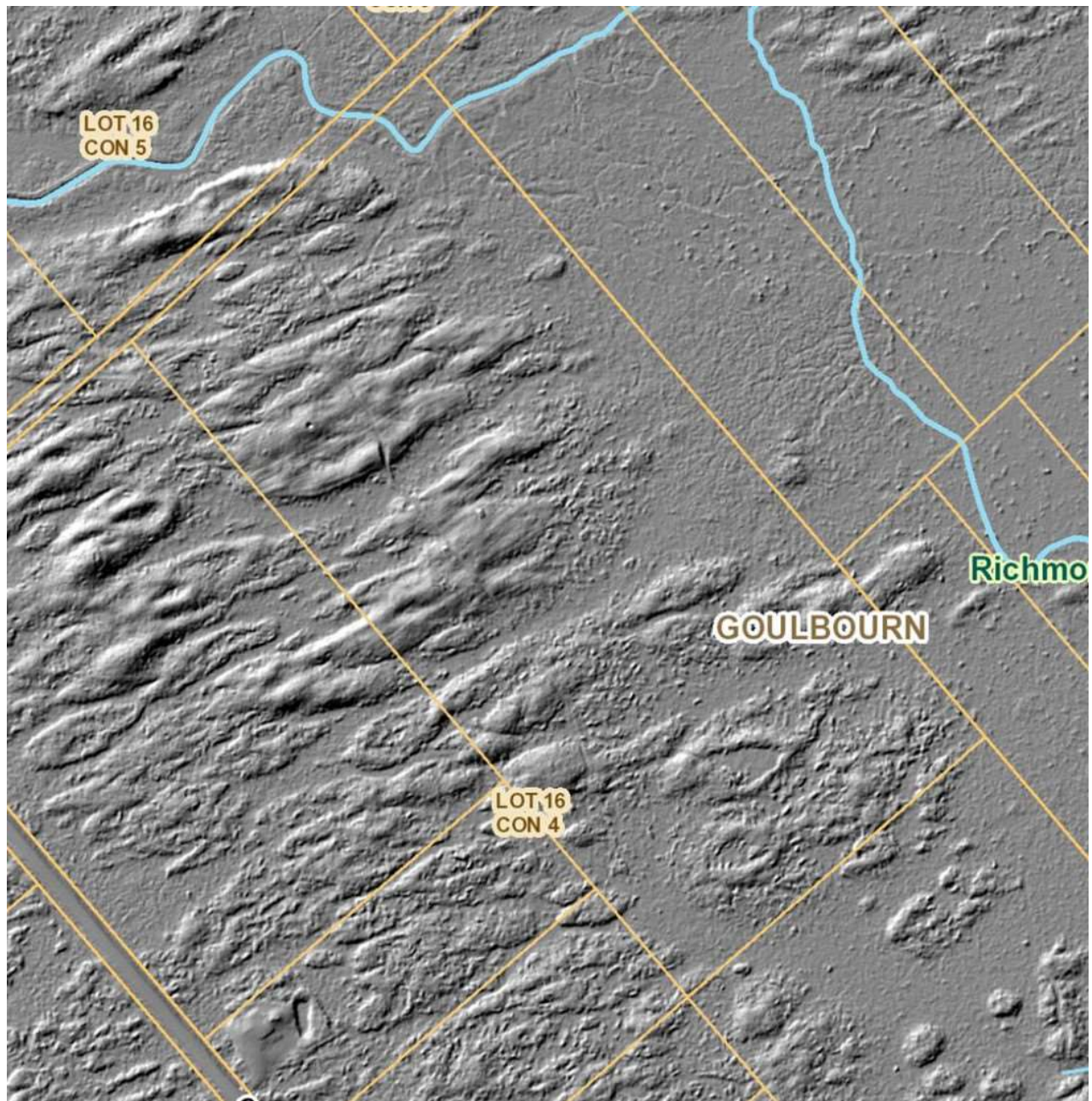
BC6

Prunus Serotina (Black Cherry)

EWP7

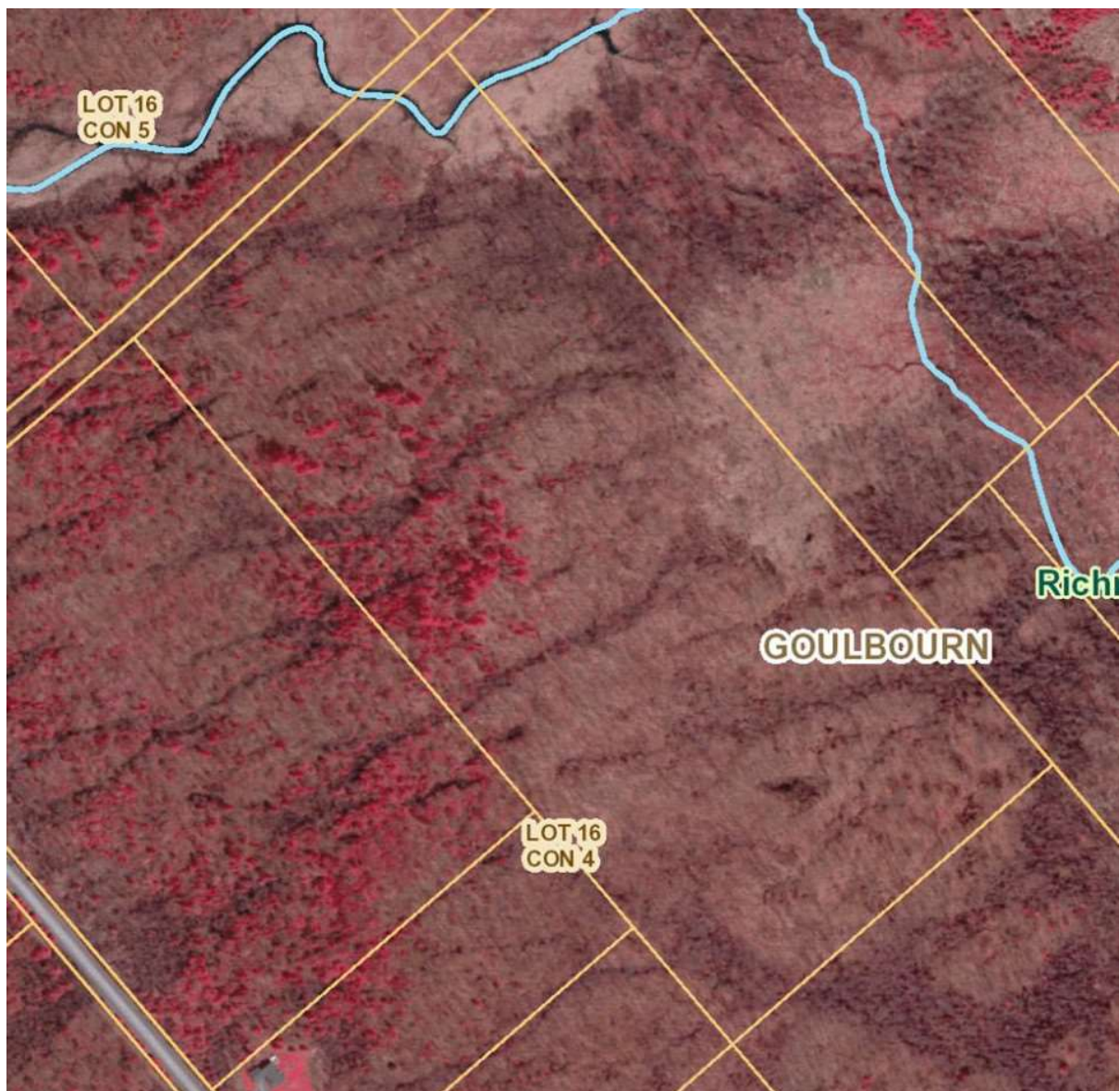Pinus Strobus (Eastern White Pine)

Appendix B

DEM of Study Area

LOT 16
CON 5

LOT 16
CON 4

GOULBOURN

Richmo

Appendix C

2014 Infra Red Imagery of Study Area

LOT 16
CON 5

LOT 16
CON 4

GOULBOURN

Richi

Appendix D

WEDSR of Study Area

WETLAND EVALUATION DATA

AND SCORING RECORD

Wetland Name: **Richmond Fen**

Geographic Location (municipality, lot/concession, etc): **Lot 16 Con IV Goulbourn, Ottawa**

Map / Photo Locational Reference (e.g., latitude/longitude, NTS map, UTM): **45.173257 , -75.889922**

Eco-District: **Smiths Falls 6E-11**

Wetland Size (hectares): **N/A**

Vegetation Form	FA
h	.90
c	.10
dh	
dc	
ts	
ls	
ds	
gc	
m	
ne	
be	
re	
ff	
f	
su	
u	

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

1.1.1 Growing Degree-Days/Soils *(max: 30 pts)*
Refer to page 36 of manual for further explanation.

1. Determine the correct GDD value for your wetland (use Figure 5).
2. Circle the appropriate GDD value from the evaluation table below.
3. Determine the Fractional Area (FA) of the wetland for each soil type.
4. Multiply the fractional area of each soil type by the applicable score-factor in the evaluation table.
5. Sum the scores for each soil type to obtain the final score (maximum score is 30 points).

		Clay-Loam	Silt-Marl	Lime-stone	Sand	Humic-Mesic	Fibric	Granite
Growing Degree-Days	<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

Soil Type	FA of wetland in soil type	Enter appropriate score-factor from above table	
Clay/Loam		X	=
Silt/Marl:		X	=
Limestone:		X	=
Sand:	1·00	X 9	= 9
Humic/Mesic:		X	=
Fibric:		X	=
Granite:		X	=
Total			

GDD/Soils Score *(maximum 30 points)* ___9___

1.1.2 Wetland Type

(Fractional Areas = area of wetland type/total wetland area)

	Fractional Area			Score
Bog		x 3	=	
Fen		x 6	=	
Swamp		x 8	=	
Marsh		x 15	=	
Total			=	N/A

Wetland Type Score *(maximum 15 points)* ___Ø___

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)		x 2	=	
Riverine		x 4	=	
Riverine (at rivermouth)		x 5	=	
Lacustrine (at rivermouth)		x 5	=	
Lacustrine (with barrier beach)		x 3	=	
Lacustrine (exposed to lake)		x 2	=	
Total			=	N/A

Site Type Score *(maximum 5 points)* ___Ø___

1.2 BIODIVERSITY

1.2.1 Number of Wetland Types

(Check only one)

One	=	9 points
Two	=	13
Three	=	20
Four	=	30

Number of Wetland Types Score
(maximum 30 points) ___0___

1.2.2. Vegetation Communities

Use the data sheet provided in Appendix 4 to record and score vegetation communities (the completed form must be attached to this data record)

Scoring *(circle only one option for each of the columns below):*

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 pts	1	=	2 pts	1	=	3 pts
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
+ 0.5 for each additional community =			+ 0.5 for each additional community =			+ 1.0 for each additional community =		

Vegetation Communities Score
(maximum 45 points) ___1.5___

1.2.3 Diversity of Surrounding Habitat

Check all appropriate items. Only habitat within 1.5 km of the wetland boundary and at least 0.5 ha in size are to be scored.

	row crop
	pasture
X	abandoned agricultural land
X	deciduous forest
✓	coniferous forest
	mixed forest*
	abandoned pits and quarries
	open lake or deep river
	fence rows with deep cover, or shelterbelts
	terrain appreciably undulating, hilly or with ravines
X	creek flood plain

* "Mixed forest" is defined as either 25% coniferous trees distributed singly or in clumps in deciduous forest, or 25% deciduous trees distributed singly or in clumps in coniferous forest. Note that Forest Resource Inventory (FRI) maps can be misleading since 25% conifer within a unit could be entirely concentrated around a lake.

Score 1 point for each feature checked, up to a maximum of 7 points.

Diversity of Surrounding Habitat Score
(maximum 7 points) _3_

1.2.4 Proximity to Other Wetlands

Check highest appropriate category. (Note: if the wetland is lacustrine, score option #1 at 8 points).

✓		Points
	Hydrologically connected by surface water to other wetlands (different dominant wetland type), or to open lake or deep river within 1.5 km	8
	Hydrologically connected by surface water to other wetlands (same dominant wetland type) within 0.5 km	8
	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
	Hydrologically connected by surface water to other wetlands (same dominant wetland type) from 0.5 to 1.5 km away	5
	Within 0.75 km of other wetlands (different dominant wetland type) or open water body, but not hydrologically connected by surface water	5
	Within 1 km of other wetlands, but not hydrologically connected by surface water	2
	No wetland within 1 km	0

Name and distance (from wetland) of wetlands/waterbodies scored above:

_____

_____

Proximity to other Wetlands Score
(maximum 8 points) _N/A_

1.2.5 Interspersion

Number of Intersections = __N/A__

✓	Number of Intersections (Check one only)		Points
	26 or less	=	3
	27 to 40	=	6
	41 to 60	=	9
	61 to 80	=	12
	81 to 100	=	15
	101 to 125	=	18
	126 to 150	=	21
	151 to 175	=	24
	176 to 200	=	27
	>200	=	30

Interspersion Score *(maximum 30 points)* __N/A__

1.2.6 Open Water Types

NOTE: *this attribute is only to be scored for permanently flooded open water within the wetland (adjacent lakes do not count). Check one option only.*

✓	Open Water Type	Characteristic		Points
	Type 1	Open water occupies < 5 % of wetland area	=	8
	Type 2	Open water occupies 5-25% of wetland (occurring in central area)	=	8
	Type 3	Open water occupies 5-25% (occurring in various-sized ponds, dense patches of vegetation or vegetation in diffuse stands)	=	14
	Type 4	Open water occupies 26-75% of wetland (occurring in a central area)	=	20
	Type 5	Open water occupies 26-75% of wetlands (small ponds and embayments are common)	=	30
	Type 6	Open water occupies 76%-95% of wetland (occurring in large central area; vegetation is peripheral)	=	8
	Type 7	Open water occupies 76-95% of wetland (vegetation in patches or diffuse open stands)	=	14
	Type 8	Open water occupies more than 95% of wetland area	=	3
	No open water		=	0

Open Water Type Score *(maximum 30 points)* __0__

1.3 SIZE (BIOLOGICAL COMPONENT)

Total Size of Wetland = _____N/A_____ ha

Sum of scores from Biodiversity Subcomponent
   1.2.1
+ 1.2.2
+ 1.2.3
+ 1.2.4
+ 1.2.5
+ 1.2.6
_____

Circle the appropriate score from the table below.

	Total Score for Biodiversity Subcomponent									
	<37	37-47	48-60	61-72	73-84	85-96	97-108	109-120	121-132	>132
<20 ha	1	5	7	8	9	17	25	34	43	50
20-40	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

Wetland size (ha)

Size Score (Biological Component)
(maximum 50 points) _____N/A_____

2.0 SOCIAL COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

2.1.1 Wood Products

Check the option that best reflects the total area (ha) of forested wetland (i.e., areas where the dominant vegetation form is h or c). Note that this is the area of all the forested vegetation communities, not total wetland size. Do not include areas where harvest is not permitted. Check only one option.

Area of wetland used for scoring 2.1.1: _____

	< 5 ha	=	0 pts
	5 - 25 ha	=	3
	26 – 50 ha	=	6
✓	51 – 100 ha	=	9
	101 – 200 ha	=	12
	> 200 ha	=	18

Source of information: ~~aerel~~ aereal photos

Wood Products Score *(maximum 18 points)* 9

2.1.2 Wild Rice

Check only one.

	Present (min. size 0.5 ha)	=	6 pts
✓	Absent	=	0
	Harvest not permitted	=	0

Source of information:

_____

Wild Rice Score *(maximum 6 points)* 0

2.1.3 Commercial Baitfish

Check only one.

✓	Present	=	12 pts
✓	Absent	=	0
	Fishing not permitted	=	0

Source of information:

Commercial Fish Score *(maximum 12 points)* 0

2.1.4 Furbearers

Only species recognized as furbearers under the Fish & Wildlife Conservation Act may be scored here. Score 3 points for each furbearer species listed, up to a maximum of 12 points. Score 0 points if trapping is prohibited.

	Name of furbearer	Source of information
1.	beaver	visual 10
2.	fisher	visual 10
3.		
4.		
5.		
6.		

Furbearer Score *(maximum 12 points)* 6

2.2 RECREATIONAL ACTIVITIES

Sources of information and reasons for scoring a wetland under high or moderate use below, must be included below.

Circle one score for each of the activities listed. Score is cumulative – add score for hunting, nature enjoyment and fishing together for final score.

		Type of Wetland-Associated Use		
		Hunting	Nature Enjoyment/ Ecosystem Study	Fishing
Intensity of Use	High	40 points	40 points	40 points
	Moderate	20	(20)	20
	Low	8	8	8
	Not Possible/ No evidence	(0)	0	(0)

Sources of information (include evidence/criteria forming basis for score and any relevant reference used to obtain that information):

Hunting: _____ Land owner _____

Nature: _____ Land owner _____

Fishing: _____ Land owner _____

Recreational Activities Score
(maximum 80 points) 20

2.3 LANDSCAPE AESTHETICS

2.3.1 Distinctness

Check only one.

✓	Clearly Distinct	=	3 pts
	Indistinct	=	0

> Landscape Distinctness Score
> *(maximum 3 points)* __3__

2.3.2 Absence of Human Disturbance

Check only one.

✓	Human disturbances absent or nearly so	=	7 pts
	One or several localized disturbances	=	4
	Moderate disturbance; localized water pollution	=	2
	Wetland intact but impairment of ecosystem quality intense in some areas	=	1
	Extreme ecological degradation, or water pollution severe and widespread	=	0

Details regarding type, extent and location of disturbance scored:

Minimal Timber Harvest

Source of information:

Landowners last 60 years

> Absence of Human Disturbance Score
> *(maximum 7 points)* __7__

2.4 EDUCATION AND PUBLIC

AWARENESS

2.4.1 Educational Uses

Check highest appropriate category.

	Frequent	=	20 pts
	Infrequent	=	12
✓	No visits	=	0

Details regarding the type and frequency of education uses scored above:

_____

_____

_____

Source of information:

_____Landowner_____

Educational Uses Score *(maximum 20 points)* ___ ◯

2.4.2 Facilities and Programs

*Check all appropriate options, score highest category
checked.*

	Staffed interpretation centre	=	8 pts
	No interpretation centre or staff, but a system of self-guiding trails or brochures available	=	4
	Facilities such as maintained paths (e.g., woodchips), boardwalks, boat launches or observation towers, but no brochures or other interpretation	=	2
✓	No facilities or programs	=	0

Additional Notes/Comments:

_____

_____

_____

Source of information:

_____Landowner_____

Facilities and Programs Score *(maximum 8 points)* ___ ◯

2.4.3 Research and Studies

Check all that apply; score highest category checked.

	Long term research has been done	=	12 pts
	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	=	0

List of reports, publications, research studies etc. scored above:

_____

_____

_____

_____

_____

_____

_____

_____

_____

Research and Studies Score
(maximum 12 points) ___0___

2.5 PROXIMITY TO AREAS

OF HUMAN SETTLEMENT

Name of Settlement:_____ monster hamlet _____

Distance of wetland from settlement:_____ 5 km _____

Population of settlement:_____ 1145 _____ (Source: 2021 Census)

Circle only the highest score applicable

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

Proximity to Human Settlement Score
(maximum 40 points) ___10___

2.6 OWNERSHIP

FA of wetland held by or held under a legal contract by a conservation body (as defined by the Conservation Land Act) for wetland protection	_____ x 10 = _____
FA of wetland occurring in provincially or nationally protected areas (e.g., parks and conservation reserves)	_____ x 10 = _____
FA of wetland area in Crown/public ownership, not as above	_____ x 8 = _____
FA of wetland area in private ownership, not as above	1 x 4 = 4

Source of information:

_____

Ownership Score *(maximum 10 points)* ___4___

Not a wetland
⇒ 0

2.7 SIZE (SOCIAL COMPONENT)

Total Size of Wetland = _N/A_ ha   Sum of scores from Subcomponents 2.1, 2.2, and 2.5 = _____

Circle the appropriate score from the table below.

	Total for Size Dependent Social Features									
	<31	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	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) __N/A__

2.8 ABORIGINAL VALUES AND CULTURAL HERITAGE

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

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

2.8.1 Aboriginal Values

Significant	= 30 pts
Not Significant	= 0
Unknown	= ⓪

Additional Comments/Notes:

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

2.8.2 Cultural Heritage

Significant	= 30 pts
Not Significant	= 0
Unknown	= ⓪

Additional Comments/Notes:

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

Aboriginal Values/Cultural Heritage Score
(maximum 30 points) _____ⓞ_____

3.0 HYDROLOGICAL COMPONENT

3.1 FLOOD ATTENUATION

Check one of the following options.

☐ If wetland is a coastal wetland, ➡ score 0 points for this section.

☐ If wetland is entirely isolated in site type, ➡ score 100 points automatically.

☐ Wetland not as above – proceed through 'steps' A through F below.

(A) Total wetland area = _____ ha

(B) Size of wetland's catchment = _____ ha

(C) Size of other detention areas in catchment = _____ ha

(D) Total area of upstream detention areas = {A + C } = _____ ha

(E) Upstream Detention Factor = {(A/D) x 2} = _____ (maximum 1.0)

(F) Attenuation Factor = {(A/B) x 10} = _____ (maximum 1.0)

Flood Attenuation Final Score = {(E + F) /2} x 100 = _____

Flood Attenuation Score *(maximum 100 points)* __NA__

3.2 WATER QUALITY

IMPROVEMENT

3.2.1 Short Term Water Quality Improvement

Step 1: Determination of maximum initial score

	Wetland on one of the 5 defined large lakes or 5 major rivers (Go to Step 5A)
	All other wetlands (Go through Steps 2, 3, 4, and 5B)

Step 2: Determination of Watershed Improvement Factor (WIF)

Calculation of WIF is based on the fractional area (FA) of each site type that makes up the total area of the wetland.

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

FA of isolated wetland	=	x 0.5 =	
FA of riverine wetland	=	x 1.0 =	
FA of palustrine wetland with no inflow	=	x 0.7 =	
FA of palustrine wetland with inflows	=	x 1.0 =	
FA of lacustrine on lake shoreline	=	x 0.2 =	
FA of lacustrine at lake inflow or outflow	=	x 1.0 =	

Sum (*WIF cannot exceed 1.0*) NA

Step 3: Determination of Catchment Land Use Factor (LUF)
(Choose the first category that fits upstream land use in the catchment.)

	Over 50% agricultural and/or urban	=	1.0
	Between 30 and 50% agricultural and/or urban	=	0.8
	Over 50% forested or other natural vegetation	=	0.6

LUF *(maximum 1.0)* .8

Step 4: Determination of Pollutant Uptake Factor (PUF)
Calculation of PUF 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 wetland with live trees, shrubs, herbs or mosses (c, h, ts, ls, gc, m)	= x 0.75 =	
FA of wetland with emergent, submergent or floating vegetation (re, be, ne, su, f, ff)	= x 1.0 =	
FA of wetland with little or no vegetation (u)	= x 0.5 =	

Sum *(PUF cannot exceed 1.0)* NA

Step 5:   Calculation of final score

	Wetland on defined 5 major lakes or 5 major rivers	0
	All other wetlands – calculate as follows	

Initial score   60

Watershed Improvement Factor (WIF)   _____

Land Use Factor (LUF)   _____

Pollutant Uptake Factor (PUF)   _____

Final score: 60 x WIF x LUF x PUF =   _____

Short Term Water Quality Improvement Score   *(maximum 60 points)* _N t_

3.2.2 Long Term Nutrient Trap

Step 1:

	Wetland on defined 5 major lakes or 5 major rivers = 0 points
	All other wetlands (Proceed to Step 2)

Step 2:   Choose only one of the following settings that best describes the wetland being evaluated

	Wetland located in a river mouth	=	10 pts
	Wetland is a bog, fen, or swamp with more than 50% of the wetland being covered with organic soil	=	10
	Wetland is a bog, fen, or swamp with less than 50% of the wetland being covered with organic soil	=	3
	Wetland is a marsh with more than 50% of the wetland covered with organic soil	=	3
	None of the above	=	0

Long Term Nutrient Trap Score   *(maximum 10 points)* _N A_

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). Note: for wetland type, wetland type scored does not have to the dominant type in the wetland.

		Potential for Discharge		
		None to Little	Some	High
Wetland Characteristics	Wetland type	Bog = 0	Swamp/Marsh = 2	Fen = 5
	Topography	Flat/rolling = 0	Hilly = 2	Steep = 5
	Wetland area: Upslope catchment area	Large (>50%) = 0	Moderate (5-50%) = 2	Small (<5%) = 5
	Lagg development	None found = 0	Minor = 2	Extensive = 5
	Seeps	None = 0	≤ 3 seeps = 2	> 3 seeps = 5
	Surface marl deposits	None = 0	≤ 3 sites = 2	> 3 sites = 5
	Iron precipitates	None = 0	≤ 3 sites = 2	> 3 sites = 5
	Located within 1 km of a major aquifer	N/A = 0	N/A = 0	Yes = 10 No = 0

Additional Comments/Notes:

_____

_____

_____

Groundwater Discharge Score
(maximum 30 points) ___ NA

3.3 CARBON SINK

Check only one of the following:

Bog, fen or swamp with more than 50% coverage by organic soil	=	5 pts
Bog, fen or swamp with between 10 to 50% coverage by organic soil	=	2
Marsh with more than 50% coverage by organic soil	=	3
Wetlands not in one of the above categories	=	0

Source of information:

_____

_____

Carbon Sink Score
(maximum 5 points) __NA__

3.4 SHORELINE EROSION

CONTROL

From the wetland vegetation map determine the dominant vegetatino type within the erosion zone for lacustrine and riverine site type areas only. Score according to the factors listed below.

Step 1:

Wetland entirely isolated or palustrine	=	0 pts
Any part of the wetland is riverine or lacustrine	=	Go to step 2

Step 2: *Choose the one characteristic that best describes the shoreline vegetation (see page 109 for description of "shoreline".)*

Trees and shrubs	=	15 pts
Emergent vegetation	=	8
Submergent vegetation	=	6
Other shoreline vegetation	=	3
No vegetation	=	0

Shoreline Erosion Control Score
(maximum 15 points) __NA__

3.5 GROUNDWATER RECHARGE

3.5.1 Site Type

Wetland > 50% lacustrine (by area) or located on one of the five major rivers		= 0 pts
Wetland not as above. Calculate final score as follows:		
▪ FA of isolated or palustrine wetland	=	x 50 =
▪ FA of riverine wetland	=	x 20 =
▪ FA of lacustrine wetland (not dominant site type)	=	x 0 =

Groundwater Recharge/Wetland Site Type Score
(maximum 50 points) NA

3.5.2 Soil Recharge Potential

*Circle only one choice that **best** describes the soils in **the area surrounding the wetland** being evaluated (the soils within the wetland are not scored here).*

		Group A, B, C (sands, gravels, loams)	Group D (clays, substrates in high water tables, shallow substrates over impervious materials such as bedrock)
Dominant Wetland Type	Lacustrine or major river	0	0
	Isolated	10	5
	Palustrine	7	4
	Riverine (not on a major river)	5	2

Groundwater Recharge/Wetland Soil Recharge
Potential Score *(maximum 10 points)* 5

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY

4.1.1 Wetland Types

Ecodistrict	Rarity within the Landscape (4.1.1.1)	Rarity of Wetland Type (4.1.1.2)			
		Marsh	Swamp	Fen	Bog
6E-1	60	40	0	80	80
6E -2	60	40	0	80	80
6E-4	60	40	0	80	80
6E-5	20	40	0	80	80
6E-6	40	20	0	80	80
6E-7	60	10	0	80	80
6E-8	20	20	0	80	80
6E-9	0	20	0	80	80
6E-10	20	0	20	80	80
6E-11	0	30	0	80	80
6E-12	0	30	0	60	80
6E-13	60	10	0	80	80
6E-14	40	20	0	40	80
6E-15	40	0	0	80	80
6E-16	60	20	0	80	60
6E-17	40	10	0	30	80
7E-1	60	0	60	80	80
7E-2	60	0	0	80	80
7E-3	60	00	0	80	80
7E-4	80	0	0	80	80
7E-5	60	20	0	80	80
7E-6	80	30	0	80	80

4.1.1.1 Rarity within the Landscape

Choose appropriate score from 2nd column above.

Score *(maximum 80 points)* NA

4.1.1.2 Rarity of Wetland Type

Score is cumulative, based on presence/absence. Circle all appropriate scores from above table and sum.

Score *(maximum 80 points)* NA

4.1.2 Species

4.1.2.1 Provincially Significant Animal Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source

Additional Notes/Comments:

_____

_____

_____

_____

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

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

Provincially Significant Animal Species
(no maximum) N. A

4.1.2.2 Provincially Significant Plant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source

Additional Notes/Comments:

_____

_____

_____

_____

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

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

Provincially Significant Plant Species
(no maximum) _____ NT

4.1.2.3 Regionally Significant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source

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

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

Regionally Significant Species Score
(no maximum score) NA

4.1.2.4 Locally Significant Species

Common Name	Scientific Name	Activity	Dates Observed	Info Source

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

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

Locally Significant Species Score
(no maximum score) NA

4.2 SIGNIFICANT FEATURES

AND HABITATS

4.2.1 Colonial Waterbirds

*Record all available information. Score the highest applicable category. Include
additional information as possible (e.g., nest locations, etc).*

Activity	Species	Info Source	Points
Currently nesting			= 50
Known to have nested within the past 5 years			= 25
Active feeding area (great blue heron excluded)			= 15
None known			= 0

Additional Notes/Comments:

_____

_____

_____

_____

Colonial Waterbird Nesting Score
(maximum 50 points) N A

4.2.2 Winter Cover for Wildlife

Score highest appropriate category. Include rationale/sources of information.

Provincially significant	= 100 pts
Significant in Ecoregion	= 50
Significant in Ecodistrict	= 25
Locally significant	= 10
Little or poor winter cover	= 0

Species/habitat/vegetation community scored *(e.g., winter deer cover in hemlock swamp, S3 and S4b)*:

_____

_____

Source of information:

_____

_____

Winter Cover for Wildlife Score
(maximum 100 points) NA

4.2.3 Waterfowl Staging and/or Moulting Areas

Check highest level of significance for both staging and moulting; add scores for staging and for moulting together for final score. However, maximum score for evaluation under this section is 150 points.

	Staging	Moulting
Nationally/internationally significant	= 150 pts	= 150 pts
Provincially significant	= 100	= 100
Significant in the Ecoregion	= 50	= 50
Significant in Ecodistrict	= 25	= 25
Known to occur	= 10	= 10
Not possible/Unknown	= 0	= 0

Species/habitat/vegetation community scored *(e.g., approx 20 mallards in W3)*:

_____

_____

Source of information:

_____

> **Waterfowl Staging/Moulting Score**
> *(maximum 150 points)* NA

4.2.4 Waterfowl Breeding

Check highest level of significance.

Nationally/internationally significant	=	150 pts
Provincially significant	=	100
Significant in the Ecoregion	=	50
Significant in Ecodistrict	=	25
Habitat Suitable	=	10
Habitat not suitable	=	0

Species/habitat/vegetation community scored *(e.g., mallard in W3)*:

_____

_____

Source of information:

_____

> **Waterfowl Breeding Score**
> *(maximum 150 points)* NA

4.2.5 Migratory Passerine, Shorebird or Raptor Stopover Area

Check highest level of significance.

Nationally / internationally significant	=	150 pts
Provincially significant	=	100
Significant in Ecoregion	=	50
Significant in Ecodistrict	=	25
Known to occur	=	10
Not possible / Unknown	=	0

Species/habitat/vegetation community scored:

_____

_____

Source of information:

_____

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

4.2.6 Fish Habitat

4.2.6.1 Spawning and Nursery Habitat

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

No. of ha of Fish Habitat	Area Factor
< 0.5 ha	0.1
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 +	1.0

Step 1:

Fish habitat is not present within the wetland   Go to Step 7, Score 0 points

Fish habitat is present within the wetland   Go to Step 2

Step 2: *Choose only one option*

Significance of the spawning and nursery habitat within the
wetland is known   Go to Step 3

Significance of the spawning and nursery habitat within
the wetland is not known   Go through Steps 4, 5 and 6

Step 3: *Select the highest appropriate category below, attach documentation:*

Significant in Ecoregion   Go to Step 7, Score 100 points

Significant in Ecodistrict   Go to Step 7, Score 50 points

Locally Significant Habitat (5.0+ ha)   Go to Step 7, Score 25 points

Locally Significant Habitat (<5.0 ha)   Go to Step 7, Score 15 points

Source of information:

_____

Step 4: Low Marsh = the 'permanent' marsh area, from the existing water line out to the outer boundary of the wetland.

Low marsh not present   Go to Step 5

Low marsh present   Continue through Step 4, scoring as noted below

Scoring of Low Marsh:

1. Check the appropriate **Vegetation Group** (see Appendix 7) for each Low Marsh community. (Based on the one most clearly dominant plant species of the dominant form in each Low Marsh vegetation community.)

2. Sum the areas (ha) of the vegetation communities assigned to each **Vegetation Group**.

3. Use these areas to assign an **Area Factor** (from Table 7) for each checked **Vegetation Group**.

4. Multiply the **Area Factor** by the **Multiplication Factor** for each row to calculate **Score**.

5. Sum all numbers in Score column to get **Total Score for Low Marsh**.

Scoring for Presence of Key Vegetation Groups – Low Marsh

Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
1	Tallgrass				6	
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 Score for Low Marsh (*maximum 75 points*)

Continue to Step 5

Step 5: High Marsh = the 'seasonal' 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	Go to Step 6
☐	High marsh present	Continue through Step 5, scoring as noted below

Scoring of High Marsh:

1. Check the appropriate **Vegetation Group** (see Appendix 7) for each High Marsh community. (Based on the one most clearly dominant plant species of the dominant form in each High Marsh vegetation community.)
2. Sum the areas (ha) of the vegetation communities assigned to each **Vegetation Group**.
3. Use these areas to assign an **Area Factor** (from Table 7) for each checked **Vegetation Group**.
4. Multiply the **Area Factor** by the **Multiplication Factor** for each row to calculate **Score**.
5. Sum all numbers in Score column to get **Total Score for High Marsh**.

Scoring for Presence of Key Vegetation Groups – High Marsh						
Vegetation Group Number	Vegetation Group Name	Present as a Dominant Form (check)	Total Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
1	Tallgrass				6	
2	Shortgrass-Sedge				11	
3	Cattail-Bulrush-Burreed				5	
4	Arrowhead-Pickerelweed				5	
	Total Score for High Marsh (*maximum 25 points*)					

Continue to Step 6

NA

Step 6:

☐	Swamp containing fish habitat not present	Go to Step 7
☐	Swamp containing fish habitat present	Continue through Step 6, scoring as follows

Scoring of Swamp:

1. Determine the total area (ha) of seasonally flooded swamp communities within the wetland containing fish habitat and record below.
2. Determine the total area (ha) of permanently flooded swamp communities within the wetland containing fish habitat and record below.
3. Use these areas to assign an **Area Factor** (from Table 7).
4. Multiply the Area Factor by the **Multiplication Factor** for each row to calculate **Score**.
5. Sum all numbers in Score column to get **Total Score for Swamp**.

Scoring Swamps for Fish Habitat (Seasonally flooded; Permanently flooded)					
Swamp Containing Fish Habitat	Present (check)	Total Area (ha)	Area Factor (from Table 7)	Multiplication Factor	Score
Seasonally Flooded Swamp				10	
Permanently Flooded Swamp				10	

Total Score for Swamp (*maximum 20 points*)

Continue to Step 7

NA

Step 7: CALCULATION OF FINAL SCORE

NOTE: Scores for Steps 4, 5 and 6 are only recorded if Steps 1 and 3 have not been scored.

A. Score from Step 1 (fish habitat not present) = _____
B. Score from Step 3 (significance known) = _____
C. Score from Step 4 (Low Marsh) = _____
D. Score from Step 5 (High Marsh) = _____
E. Score from Step 6 (Swamp) = _____

Calculation of Final Score for Spawning and Nursery Habitat = A or B or Sum of C, D, and E

Score for Spawning and Nursery Habitat
(maximum 100 points) __*NA*__

4.2.6.2 Migration and Staging Habitat

Step 1:

☐	Staging or Migration Habitat is not present in the wetland	Go to Step 4, Score 0 points
☐	Staging or Migration Habitat is present in the wetland, significance of the habitat is known	Go to Step 2
☐	Staging or Migration Habitat is present in the wetland, significance of the habitat is not known	Go to Step 3

Step 2: Select the highest appropriate category below. Ensure that documentation is attached to the data record.

☐	Significant in Ecoregion	Score 25 points in Step 4
☐	Significant in Ecodistrict	Score 15 points in Step 4
☐	Locally Significant	Score 10 points in Step 4
☐	Fish staging and/or migration habitat present, but not as above	Score 5 points in Step 4

Source of information:

_____

_____

Step 3: Select the highest appropriate category below based on presence of the designated site type (i.e. does not have to be the dominant site type). Refer to Site Types recorded earlier (section 1.1.3). Attach documentation.

☐	Wetland is riverine at rivermouth or lacustrine at rivermouth	Score 25 points in Step 4
☐	Wetland is riverine, within 0.75 km of rivermouth	Score 15 points in Step 4
☐	Wetland is lacustrine, within 0.75 km of rivermouth	Score 10 points in Step 4
☐	Fish staging and/or migration habitat present, but not as above	Score 5 points in Step 4

Step 4: Enter a score from only one of the three above Steps.

Score for Staging and Migration Habitat
(maximum 25 points) NA

4.3 ECOSYSTEM AGE

		Fractional Area		Score
Bog	=		x 25 =	
Fen, on deeper soils; floating mats or marl	=		x 20 =	
Fen, on limestone rock	=		x 5 =	
Swamp	=		x 3 =	
Marsh	=		x 0 =	
	Total		=	

Ecosystem Age Score *(maximum 25 points)* _N A_

4.4 GREAT LAKES COASTAL

WETLANDS

Choose one only.

Wetland < 10 ha	=	10 pts
Wetland 10-50 ha	=	25
Wetland 51-100 ha	=	50
Wetland > 100 ha	=	75

Great Lakes Coastal Wetland Score
(maximum 75 points) _N A_

Wetland Evaluator(s)

Name: _Bruce Chrustie_ Affiliation: _____

Signature: _B_____

(by signing, I confirm that this evaluation has been undertaken and completed in accordance with the Ontario Wetland Evaluation System Southern Manual 4th Edition / Northern Manual 2nd Edition)

Name: _____ Affiliation: _____

Signature: _____

(by signing, I confirm that this evaluation has been undertaken and completed in accordance with the Ontario Wetland Evaluation System Southern Manual 4th Edition / Northern Manual 2nd Edition)

Name: _____ Affiliation: _____

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Name: _____ Affiliation: _____

Signature: _____

(by signing, I confirm that this evaluation has been undertaken and completed in accordance with the Ontario Wetland Evaluation System Southern Manual 4th Edition / Northern Manual 2nd Edition)

Date(s) wetland visited (in field): _Oct 17, 2024_

Date evaluation completed: _Oct 30, 2024_

Estimated time devoted to completing the field survey in person hours: _50_

Weather Conditions

i) at time of field work: _____ Sunny 20 c _____

ii) summer conditions in general: _____ average temp, above average

precipitation

WETLAND NAME: _____

1.0 BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY

_9_ 1.1.1 Growing Degree-Days/Soils

_____ 1.1.2 Wetland Type

_____ 1.1.3 Site Type

_9_

1.2 BIODIVERSITY

_____ 1.2.1 Number of Wetland Types

_1.5_ 1.2.2 Vegetation Communities

_3_ 1.2.3 Diversity of Surrounding Habitat

_____ 1.2.4 Proximity to Other Wetlands

_____ 1.2.5 Interspersion

_____ 1.2.6 Open Water Type

_4.5_

_____ 1.3 SIZE (Biological Component)

_13.5_ TOTAL (Biological Component)

2.0 SOCIAL COMPONENT

2.1 ECONOMICALLY VALUABLE PRODUCTS

9 / — 2.1.1 Wood Products

— 2.1.2 Wild Rice

— 2.1.3 Commerical Baitfish

~~200~~ 6 — 2.1.4 Furbearers

~~30~~ 15 — Total for Economically Valuable Products

20 — **2.2 RECREATIONAL ACTIVITIES**

2.3 LANDSCAPE AESTHETICS

3 — 2.3.1 Distinctness

7 — 2.3.2 Absence of Human Disturbance

10 — Total for Landscape Aesthetics

2.4 EDUCATION AND PUBLIC AWARENESS

8 — 2.4.1 Educational Uses

0 — 2.4.2 Facilities and Programs

0 — 2.4.3 Research and Studies

0 — Total for Education and Public Awareness

10 — **2.5 PROXIMITY TO AREAS OF HUMAN SETTLEMENT**

0 — **2.6 OWNERSHIP**

0 — **2.7 SIZE (Social Component)**

2.8 ABORIGINAL VALUES AND CULTURAL HERITAGE

0 — 2.8.1 Aboriginal Values

0 — 2.8.2 Cultural Heritage

50 — **TOTAL (Social Component)**

3.0 HYDROLOGICAL COMPONENT

_____ ✓   3.1 FLOOD ATTENUATION

3.2 WATER QUALITY IMPROVEMENT

_____
_____   3.2.1   Short Term Water Quality Improvement
_____   3.2.2   Long Term Nutrient Trap
_____   3.2.3   Groundwater Discharge

_____ 0   Total for Water Quality Improvement

_____ 0   3.3 CARBON SINK

_____ 0   3.4 SHORELINE EROSION CONTROL

3.5 GROUNDWATER RECHARGE

_____ 0   3.5.1   Site Type
_____ 5   3.5.2   Soil Recharge Potential

_____ 5   Total for Groundwater Recharge

_____ 5   TOTAL (Hydrological Component)

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY

4.1.1 Wetlands

4.1.1.1 Rarity within the Landscape

4.1.1.2 Rarity of Wetland Type

Total for Wetland Rarity

4.1.2 Species

4.1.2.1 Provincially Significant Animals

4.1.2.2 Provincially Significant Plants

4.1.2.3 Regionally Significant Species

4.1.2.4 Locally Significant Species

Total for Species Rarity

4.2 SIGNIFICANT FEATURES AND HABITATS

4.2.1 Colonial Waterbirds

4.2.2 Winter Cover for Wildlife

4.2.3 Waterfowl Staging and/or Moulting Areas

4.2.4 Waterfowl Breeding

4.2.5 Migratory Passerine, Shorebird or Raptor Stopover Area

4.2.6 Fish Habitat

4.2.6.1 Spawning and Nursery Habitat

4.2.6.2 Migration and Staging Habitat

Total for Significant Features and Habitats

4.3 ECOSYSTEM AGE

4.4 GREAT LAKES COASTAL WETLANDS

TOTAL FOR SPECIAL FEATURES COMPONENT (*not to exceed 250*)

SUMMARY OF EVALUATION RESULT

Wetland _____

_13.5_   1.0   TOTAL FOR BIOLOGICAL COMPONENT

_50_   2.0   TOTAL FOR SOCIAL COMPONENT

_5_   3.0   TOTAL FOR HYDROLOGICAL COMPONENT

_0_   4.0   TOTAL FOR SPECIAL FEATURES COMPONENT

_68.5_   TOTAL WETLAND SCORE