WETLAND EVALUATION RECORD

Wetland Name..... KE 62 043 LOCH GARRY MARSH

Result of Evaluation: CLASS 1

GENERAL INFORMATION

Ontario Ministry of Natural Resources:
- Region ..... EASTERN
- District ..... CORNWALL

Conservation Authority ..... RAISIN REGION

County or Regional Municipality ..... GLENGARRY

Township ..... KENYON

UTM Reference Zone 18T
UTM Grid Coordinates 230108

National Topographic Map Series:
- Map Scale 1:50000
- Map Number 31 G/7
- Map Name ..... ALEXANDRIA

Wetland Association ..... Complex

Number of Wetlands in Complex 7

Total Size of Wetland (Ha) 1281.00

1.0 BIOLOGICAL COMPONENT

1.1. PRODUCTIVITY VALUES

1.1.1. Growing Degree Days	14	
1.1.2. Soils	5	
1.1.3. Type of Wetland	15	
1.1.4. Site	5	
1.1.5. Nutrient Status of Surface Water	20	
TOTAL for Productivity Values		59

1.2. DIVERSITY VALUES

1.2.1. Number of Wetland Types	9	
1.2.2. Vegetation Communities	30	
1.2.3. Diversity of Surrounding Habitat	10	
1.2.4. Proximity to Other Wetlands	10	
1.2.5. Interspersion	20	
1.2.6. Open Water Types	20	
TOTAL for Diversity Values		99

1.3. SIZE (Biological Component)	50
TOTAL FOR BIOLOGICAL COMPONENT	208

2.0 SOCIAL COMPONENT

2.1. RESOURCE PRODUCTS WITH CASH VALUE		
2.1.1. Timber (lumber and firewood)	10	
2.1.2. Wild Rice	10	
2.1.3. Commercial Fish (Bait Fish and/or Coarse Fish)	30	
2.1.4. Bullfrogs	2	
2.1.5. Snapping Turtles	2	
2.1.6. Furbearers	15	
TOTAL for Resource Products with Cash Value		60
2.2. RECREATIONAL ACTIVITIES		70
2.3. AESTHETICS		
2.3.1. Landscape Distinctness	5	
2.3.2. Absence of Human Disturbances	10	
TOTAL for Aesthetics		15
2.4. EDUCATION AND PUBLIC AWARENESS		
2.4.1. Educational Uses	10	
2.4.2. Facilities and Programs	0	
2.4.3. Research and Studies	3	
TOTAL for Education and Public Awareness		13
2.5. PROXIMITY TO URBAN AREAS		10
2.6. OWNERSHIP/ACCESSIBILITY		9
2.7. SIZE (Social Component)		20
TOTAL FOR SOCIAL COMPONENT		197

3.0 HYDROLOGICAL COMPONENT

3.1. EFFECT OF ADJOINING LARGE WATER BODY

3.2. FLOW STABILIZATION

3.2.1. Detention due to Surface Area			
3.2.1.1. and			
3.2.1.2. FIRST step (from Table).....	90		
3.2.1.3. SECOND step.....	0		
3.2.1.5. THIRD step.....	-2		
3.2.1.6. FOURTH step.....	0		
3.2.1.7. FIFTH step.....	40		
TOTAL for Detention Due to Surface Area		128	
3.2.2. Flow Augmentation		40	
TOTAL for Flow Stabilization			168

3.3. WATER QUALITY IMPROVEMENT

3.3.1 Short Term Removal of Nutrients from Surface Water			
3.3.1.1. Site type.....	2		
3.3.1.2. Wetland Area Dominated by Robust Emergents and Submergents.....	8		
3.3.1.3. Land Use in Catchment Basin	3		
TOTAL for Short Term Removal of Nutrients from Surface Water		13	
3.3.2. Long Term Nutrient Trap		6	
TOTAL for Water Quality Improvement			19

3.4. EROSION CONTROL

3.4.1. Erosion Buffer			
3.4.1.1. Riverine Wetlands.....	0		
3.4.1.2. Lacustrine Wetlands.....	0		
3.4.1.3. Fetch.....	0		
TOTAL for Erosion Buffer		0	
3.4.2. Sheet Erosion		3	
TOTAL for Erosion Control			3
TOTAL FOR HYDROLOGICAL COMPONENT			190

4.0 SPECIAL FEATURES COMPONENT

4.1 RARITY AND/OR SCARCITY

4.1.1. Individual Wetlands.....		20	
4.1.2. Wetland Type Representation.....		20	
4.1.3. Individual Species			
4.1.3.1. Breeding Habitat for an Endangered Animal or Plant Species.....	0		
4.1.3.2. Traditional Migration or Feeding Habitat for an Endangered Animal Species..	0		
4.1.3.3. Breeding or Feeding Habitat for a Provincially Significant Animal Species.	150		
4.1.3.4. Provincially Significant Plant Species.....	0		
4.1.3.5. Regionally Significant Species.....	10		
TOTAL for Individual Species		160	
TOTAL for Rarity and/or Scarcity			200

4.2. SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT

4.2.1. Nesting of Colonial Waterbirds.....	3	
4.2.2. Winter Cover for Wildlife.....	10	
4.2.3. Waterfowl Staging.....	50	
4.2.4. Waterfowl Production.....	5	
4.2.5. Migratory Passerine and/or Shorebird Stopover Area.....	0	
4.2.6. Significance for Fish Spawning and Rearing.....	15	
4.2.7. Unusual Geological or other Surficial Features.....	0	
TOTAL for Significant Features and/or Fish and Wildlife Habitat		83

4.3. ECOLOGICAL AGE 3

TOTAL FOR SPECIAL FEATURES COMPONENT 250

SUMMARY OF EVALUATION RESULTS

Wetland Name: KE 62 043 LOCH GARRY MARSH

TOTAL FOR 1.0 BIOLOGICAL COMPONENT.....	208
TOTAL FOR 2.0 SOCIAL COMPONENT.....	197
TOTAL FOR 3.0 HYDROLOGICAL COMPONENT.....	190
TOTAL FOR 4.0 SPECIAL FEATURES COMPONENT.....	250
TOTAL	845
CLASS	1

INVESTIGATORS:

PAT MOHR
SHEILA BEAUDETTE

AFFILIATION .. ECOLOGISTICS LTD.
DATE ..... 07/??/83

1. BIOLOGICAL COMPONENT

1.1 PRODUCTIVITY VALUES

1.1.1 Growing degree days code..... 3
1.1.2 Soil Types: % Area for Each Type
Clay, loam or silt (mineral)..... 16
Organic..... 57
Undesignated..... 27
1.1.3 Wetland Types: % Area for Each Type
Bog..... 14
Fen..... 0
Swamp..... 40
Marsh (including open water marsh)..... 46
1.1.4 Site Types: % Area for Each Type
Isolated..... 0
Palustrine 34.5
Riverine..... 31.9
Riverine (at river mouth)..... 0
Lacustrine (at river mouth)..... 0
Lacustrine (on enclosed bay)..... 0
Lacustrine (exposed to lake)..... 33.6
1.1.5 Nutrient Status of Surface Water:

Location	Initial Specific Conductance	Temperature (Degrees C)	Total Dissolved Solids
1	145	14	123.79
2	225	21	162.87
3	200	22	141.69
4	125	9	122.41
	Average Total Dissolved Solids		138

1.2 DIVERSITY VALUES

1.2.1 Number of Wetland Types..... 3
1.2.2 Vegetation Communities (# of codes)
a) One form..... 6
b) Two forms..... 12
c) Three forms..... 11
d) Four forms..... 10
e) Five forms..... 5
f) Six forms..... 1 45
1.2.3 Diversity of Surrounding Habitat:
Number of Habitat Types:..... 11
1.2.4 Proximity to Other Wetlands (code)..... 1
1.2.5 Interspersion Type..... 3
1.2.6 Open Water Type..... 4

1.3 SIZE (Ha)..... 1281.00

2. SOCIAL COMPONENT

2.1 RESOURCE PRODUCTS WITH CASH VALUE (CODES)

2.1.1 Timber..... 2
2.1.2 Wild Rice..... 1
2.1.3 Commercial Fish..... 1
2.1.4 Bullfrogs..... 1
2.1.5 Snapping Turtles..... 1
2.1.6 Furbearers:
Types of important furbearers 4
Other furbearers? (1=Yes; 0=No)..... 1

2.2 RECREATIONAL ACTIVITIES

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* Intensity of Use Codes: *
*  1. High  2. Moderate   *
*  3. Low   4. Unknown    *
*  5. Not Possible        *
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For These Activities:
a) Hunting..... 1
b) Nature Appreciation or Study..... 2
c) Fishing..... 1
d) Canoeing/Boating..... 1

2.3 AESTHETICS (codes)

2.3.1 Landscape Distinctness Code..... 1
2.3.2 Level of Human Disturbance..... 3

2.4 EDUCATION & PUBLIC AWARENESS (Codes)

2.4.1 Educational Uses..... 1
2.4.2 Facilities and Programs..... 3
2.4.3 Research and Studies..... 2

2.5 PROXIMITY TO URBAN AREAS..... 3

2.6 % AREA FOR EACH OWNERSHIP AND ACCESSIBILITY CLASS:

ACCESS	PUBLIC		PRIVATE		
	Unrestricted activities	Restricted activities	Open to public	Closed to public	Private & posted
Easy most times	30	0	0	0	30
Easy at times	0	0	0	0	20
Limited	0	0	0	0	20
Difficult	0	0	0	0	0

2.7 SIZE (HA)..... 1281.00

3. HYDROLOGICAL COMPONENT

3.1 ADJOINING LARGE WATER BODY (code)..... 3

3.2 FLOW STABILIZATION

3.2.1 Detention Due to Surface Area
3.2.1.1 Catchment Basin Size (sq km)..... 30.20
3.2.1.2 Total Size of
All Detention Areas (sq km)..... 0
3.2.1.3 Size of Adjoining Lake (ha)..... 0
3.2.1.4 Size of Adjoining River (ha)..... 0
3.2.1.5 Location and Size of Detention Areas

a) Detention Areas Above the Wetland:

AREA No.	DISTANCE FROM WETLAND (Km)	SIZE (ha)
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0

b) Detention Areas Below the Wetland:

AREA No.	DISTANCE FROM WETLAND (Km)	SIZE (ha)
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0

3.2.1.6 Land Use Below Wetland
Land use code 2
Agricultural border length 0
3.2.1.7 Size (ha)..... 1281.00
3.2.2 Flow Augmentation
Size of Catchment Basin (sq km)..... 30.20
Wetland Area as % of Basin 42.4

3.3 WATER QUALITY IMPROVEMENT (codes)

3.3.1 Short Term Removal of
Nutrients from Surface Water
3.3.1.1 Dominant site code..... 2
3.3.1.2 Area of Emergents and
Submergents (code)..... 5
3.3.1.3 Land Use in Catchment Basin..... 3
3.3.3 Long Term Nutrient Trap..... 3

3.4 EROSION CONTROL

3.4.1 Erosion Buffer Codes:

3.4.1.1 Riverine Wetlands..... 0
3.4.1.2 Lacustrine Wetlands..... 0
3.4.1.3 Maximum Fetch distance code..... 0
3.4.2 Sheet Erosion R Factor code..... 2

4. SPECIAL FEATURES COMPONENT

4.1 RARITY AND/OR SCARCITY

4.1.1 Individual Wetland Unit Number..... 14
4.1.2 Wetland Type Representation:
Marsh..... YES
Swamp..... YES
Fen..... NO
Bog..... YES
4.1.3 Individual Species (codes)
4.1.3.1 Breeding Habitat for an Endangered Animal or Plant Species..... 0
4.1.3.2 Traditional Migration or Feeding Habitat for an Endangered Animal Species..... 0
4.1.3.3 Breeding or Feeding Habitat for a Provincially Significant Animal Species..... 3 American wigeon Red-shouldered hawk. Marsh hawk,
4.1.3.4 Provincially Significant Plants..... 0
4.1.3.5 Regionally Significant Species..... 1 River Otter.

4.2 SIGNIFICANT FEATURES AND/OR FISH AND WILDLIFE HABITAT (codes)

4.2.1 Nesting of Colonial Waterbirds..... 3
4.2.2 Winter Cover for Wildlife..... 3
4.2.3 Waterfowl Staging..... 3
4.2.4 Waterfowl Production..... 3
4.2.5 Migratory Passerine and/or Shorebird Stopover Area..... 2
4.2.6 Significance for Fish Spawning and Rearing..... 2
4.2.7 Unusual Geological or Other Surficial Features (yes=1, no=2)..... 2

4.3 ECOLOGICAL AGE: % of Area Covered by:

Bog..... 14
Fen..... 0
Swamp..... 40
Marsh..... 46

INVESTIGATORS:

1st Investigator..... PAT MOHR
2nd Investigator..... SHEILA BEAUDETTE
3rd Investigator.....
Affiliation..... ECOLOGISTICS LTD.

DATE (m/d/y)..... 07/??/83

TIME TO COMPLETE SURVEY
(person-hours).... 198

APPENDIX A

BIOLOGICAL COMPONENT

% Area Dominated by Form:

1.	h	- Deciduous trees	100
2.	c	- Coniferous trees	0
3.	dh	- Dead deciduous trees	0
4.	dc	- Dead coniferous trees	0
5.	ts	- Tall shrubs	0
6.	ls	- Low shrubs	0
7.	ds	- Dead shrubs	0
8.	gc	- Herbs	0
9.	m	- Moss	0
10.	ne	- Narrow emergents	0
11.	be	- Broad emergents	0
12.	re	- Robust emergents	0
13.	ff	- Free floating plants	0
14.	f	- Floating plants	0
15.	su	- Submerged plants	0
16.	sr	- Shrub-rich	0
17.	u	- Unvegetated	0

APPENDIX B

B.1 OWNERSHIP BY WETLAND TYPE

WETLAND TYPE	OWNERSHIP (ha)			TOTAL AREA
	PRIVATE	PUBLIC	UNKNOWN	
SWAMP	0	0	0	0
MARSH	0	0	0	0
BOG	0	0	0	0
FEN	0	0	0	0
TOTAL	0	0	0	0

B.2 AGRICULTURAL CLASSIFICATION BY WETLAND TYPE

WETLAND TYPE	AGRICULTURAL CLASSIFICATION (ha)							TOTAL AREA
	1	2	3	4	5	6	7	
SWAMP	0	0	0	0	0	0	0	0
MARSH	0	0	0	0	0	0	0	0
BOG	0	0	0	0	0	0	0	0
FEN	0	0	0	0	0	0	0	0

B.3 AGRICULTURAL CLASSIFICATION AND OWNERSHIP OF EXTENDED WETLAND

Extended Wetland Area (ha): 0

AG. CLASS	OWNERSHIP (ha)			TOTAL AREA
	PRIVATE	PUBLIC	UNKNOWN	
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0