

**UPPER ENGLISH RIVER  
CONSERVATION RESERVE  
C2327**

**STATEMENT OF CONSERVATION INTEREST**



**JUNE, 2003**

**DRYDEN DISTRICT  
MINISTRY OF NATURAL RESOURCES**

## Approval Statement

We are pleased to approve this Statement of Conservation Interest for the Upper English River Conservation Reserve (C2327).

This Statement of Conservation Interest will provide guidance for the management of the Conservation Reserve and form the basis for ongoing monitoring of activities. More detailed direction is not anticipated at this time. Should significant facility development be considered or complex issues arise requiring additional studies, more defined management direction, or special protection measures, a more detailed Conservation Reserve Management Plan will be prepared with full public consultation.

The Upper English River Conservation Reserve will be managed under the jurisdiction of the Ignace Area supervisor, Dryden District, Ministry of Natural Resources.



R.G. McColm  
Dryden District Manager  
Ministry of Natural Resources



Charlie Lauer  
Regional Director  
Northwest Region  
Ministry of Natural Resources

30/06/03.

Date

03/07/16

Date

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## 1.0 Background Information

The purpose of this document is to identify and document the natural heritage values of the Upper English River Conservation Reserve, the activities that occur there and, through a

set of management guidelines, lay out the activities that will and will not be permitted. For more information regarding this Statement of Conservation Interest (SCI) please refer to the "Conservation Reserve Policy and Procedure PL3.03.05".

**Table 1.1:** Background information for the Upper English River Conservation Reserve.

<b>Name</b>	Upper English River Conservation Reserve (C2327)
<b>Site Region / Site District</b>	4W1, 3W2
<b>OMNR Administrative Region / District / Area</b>	Northwest Region / Dryden District / Ignace Area, English River Forest and Brightsand Forest
<b>Total Area (ha)</b>	12,295
<b>Regulation Date</b>	Anticipated for 2003
<b>First Nations</b>	Ojibway Nation of the Saugeen Band, Wabigoon Lake Ojibway Nation, Aboriginal People of Wabigoon,
<b>OBM</b>	20 15: 610054900, 620054900, 620054800, 630054900, 630055000, 640055000, 650055100, 650055000, 660055100, 660055000, 670055100, 670055000, 680055100
<b>Lat. / Long.</b>	49° 41' N / 91° 04' W
<b>Basemap</b>	61549, 62549, 62548, 63549, 63550, 64550, 65551, 65550, 66551, 66550, 67551, 67550, 68551
<b>General Location Description</b>	The start of the reserve (at the bridge on Hwy. 599) is located approximately 32.5 km northeast of the Town of Ignace and approximately 105 km northeast of the City of Dryden (134 km by road). The reserve extends approximately 65 km heading east ending at Dove Lake. Some of the larger lakes (>1000 ha) the reserve borders include Sowden Lake and Shikag Lakes.
<b>Access</b>	Access to different portions of the reserve may be gained via Sowden Lk. Rd. and from the English River Bridge on Hwy. 599. Portages exist between all of the lakes from Frank's Lake in the west to Pipio Lake in the east.

**Table 1.2:** Representation Targets – A summary of earth science, life science, cultural resource values and present or possible recreational opportunities.

<b>Life Science Representation</b>	<p><b>Upland Forest/Forested Dunes:</b>          Black spruce and jack pine on ground moraine.          Trembling aspen and white birch on sandy soils.          Mature white pine stands along river and lake shores.          Upland cedar on rich clays.</p> <p><b>Wetland:</b>          Black ash and balsam poplar swamps on river floodplain.          Thicket swamp and meadow marsh in wetter areas.          Extensive wetlands including wild rice marshes.</p> <p><b>Aquatic Habitat:</b>          Both lacustrine and riverine habitats.          Most lakes shallow and mesotrophic; Pipio and English lakes are deeper and more oligotrophic</p> <p><b>Animal Species:</b>          Moose, bear, wolf, beaver, eagle, osprey, loons, ruffed grouse, mallards, herons, various other fur-bearing mammals</p>
<b>Earth Science Representation</b>	<p><b>Bedrock:</b>          - underlain with granitic and gneissic rocks of the central region of the Archean age Wabigoon Subprovince . Foliated to massive tonalite to granodiorite suite rocks found central and in the most eastern sections of the reserve as well.          - two late Archean age batholiths containing mostly potassic, granite to granodiorite rock intersect the river.</p> <p><b>Surficial Geology:</b>          The reserve is covered with silt and clay under glaciofluvial material deposited during glacial retreat. Glaciolacustrine clays and silts can be found on the north side of central Shikag Lake, at Eva Lake where the old CN rail line crosses the river and in the extreme downstream portion of the reserve. Shallow ground moraine over bedrock can be found at Pipio Lake, in the western portion of Shikag Lake and in sections of the river between MacKenzie and Frank’s lakes. Two systems of outwash plains with minor kame fields cross the reserve at the east end of Shikag and the west end of the reserve.</p>
<b>Cultural Value Representation</b>	<p>Artifact and pictograph sites along river. Numerous modern day campsites with associating man-made structures.</p>
<b>Recreational Opportunities</b>	<p>Opportunities exist for fishing, camping, hunting, canoeing, portaging, berry picking, nature viewing and solitude activities.</p>

**Table 1.3:** Survey Information – Overview of inventories completed, their level of detail and any inventories that are needed.

Survey Level	Life Science	Earth Science	Cultural	Recreational
Reconnaissance	- checklist and Life Science Inventory - 2002	- checklist and Earth Science Inventory – 2002	- not required	- check list and Recreation Inventory Report - 2002
Detailed	- not required	- not required	- not required	- not required

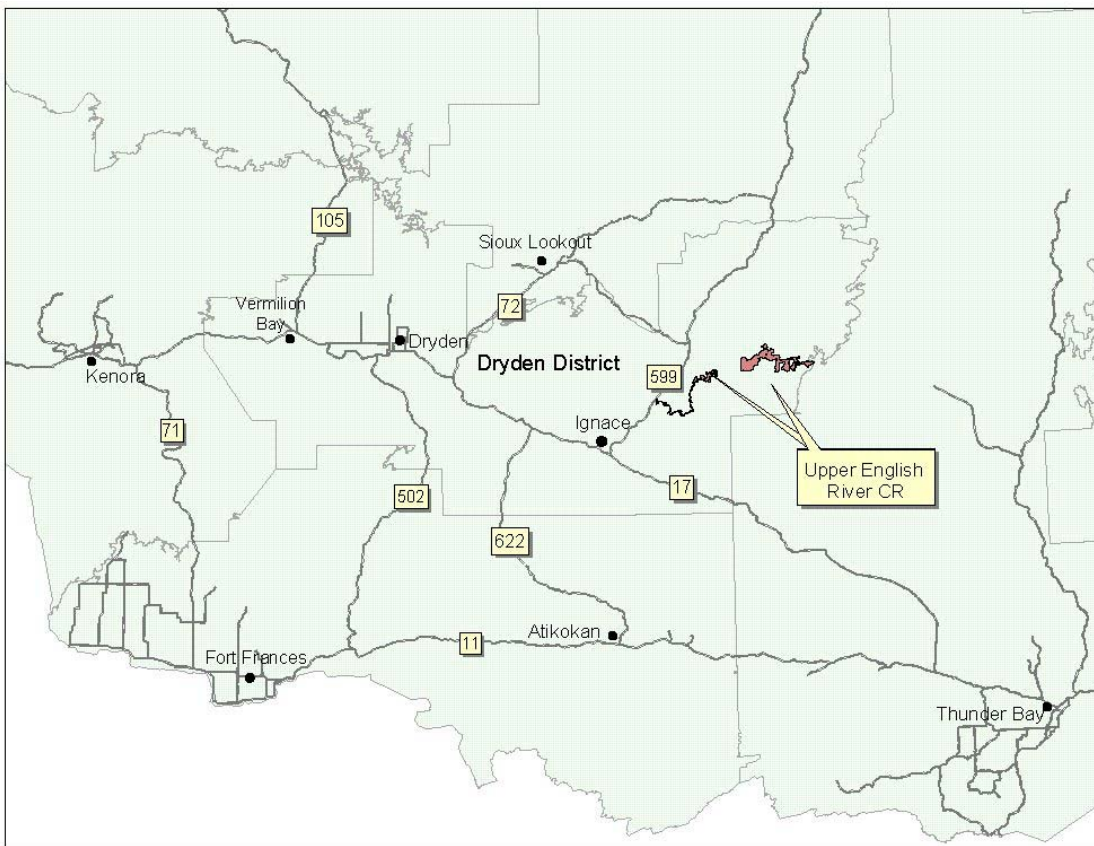


Figure 1: General location of the Upper English River Conservation Reserve.

## 2.0 Values to be Protected

This section provides a description of the key natural heritage values on the site,

their condition relative to past resource and management activities, and their sensitivity to future land use and management activities.

**Table 2.1:** Values identified on the Upper English River Conservation Reserve.

Life Science	Possible travel corridor and summer habitat along Shikag and Pipio Lakes for caribou. Significant large wild rice stands within the ecodistrict. The reserve contains several eagle and osprey nests. As well, Royal fern can be found along the riverbanks, indicating a natural flow regime.
Earth Science	-the reserve gives access to 3 of the dominant lithologic suites (considered regionally significant)
Cultural	Man-made structures (tables, fire pits, benches etc.) on camp/shorelunch areas throughout reserve
Aboriginal	Archaeological sites – pictographs, artifact sites
Tourism	Kozy Camp, Flayer’s Lodge Outpost, Moose Point Lodge, Ouisconsin Canoe Club, Northern Wilderness Outfitters
Recreational Fishing	Permitted; sport fish include Walleye, Northern Pike and Bass
Recreational Hunting	Permitted; WMU #15A; moose, deer, bear, waterfowl
Trapping	Permitted; trap lines: IG-24, IG-25, IG-37, IG-39, IG-40, IG-41, IG-43, TB-194
Bear Management Area	IG-15A-012, IG-15A-044
Bait Harvesting	Block #: 61549, 62549, 62548, 63549, 63550, 64550, 65551, 65550, 66551, 66550, 67551, 67550, 68551
Commercial Fishing	- in the past but not currently

**2.2 Values to be Protected**

The intent of this SCI is to protect the following values by establishing management guidelines for existing and potential uses in this area given the level of past disturbance and the nature of the existing features.

**2.2.1 Forest Values**

No significant values were assigned to the forested areas within the reserve.

**2.2.2 Biological Values**

Heavy woodland caribou activity was detected in the Shikag and Pipio Lake areas during aerial surveys conducted in the winters of 1988 and 1989 (Harris, 1990). The reserve itself does not

contain any large core winter habitat blocks for caribou so these areas may act as travel corridors or summer habitat. The Upper English River Conservation Reserve contains significant riverine habitat and a representative section of a large free-flowing river system. The large wild rice stands on the lower river are considered significant in the ecodistrict. (Harris et al., 2002)

**2.2.3 Landform Values**

The reserve crosses a large portion of the granitic and gneissic central region of the Wabigoon Subprovince giving access to three of the dominant lithologic suites. This was given regional significance. (Blackburn, 2002)

#### **2.2.4 Recreational Values**

The Recreation Resource Inventory deemed the sport fish, the lakes and river, existing canoe route, traditional use route or trail, rapids and chutes, the general wildlife, sand beaches and general vegetation to be recreational features in this reserve. Present and potential recreation activities include canoeing, fishing, camping, hunting, portaging, berry picking, viewing and solitude. The traditional route/trail was considered to be most sensitive to recreation use as there runs the risk of damage to pictographs and sites where artifacts have been found. This sensitivity is considered low, however, due to the fact that the location of such sites will not be disclosed by MNR.

#### **2.2.5 Tourism Values**

Seven Lodges/Resorts and outpost camps exist in or directly adjacent to the Upper English River Conservation Reserve as well as eight commercial boat caches (see Table 2.1). Services provided consist almost entirely of fishing and relaxation however there are some hunting groups that frequent the area in the fall.

#### **2.2.6 Cultural Values**

An archaeological survey conducted in the late 1970s (Palette, 1980) indicated that the English River System was a minor water route for historic peoples. The survey itself extended from the southeast end of Minnitaki Lake passing through a number of lakes contained within the East English River Provincial Park and the parts of the Conservation Reserve, down the south shore of Mattawa Lake and through the English

River to Selwyn Lake. The Conservation Reserve, however, diverges at Mattawa and extends northeast from Palette to Dove Lake. No known surveys exist for this portion of the reserve. Pictographs and artifact find sites can be found throughout the reserve, however, indicating travel through the latter area by historic peoples as well.

### **3.0 Management Guidelines**

#### **3.1 Land Tenure**

The Upper English River Conservation Reserve consists entirely of and is mostly surrounded by Crown land. Some small private land parcels within the reserve boundaries have been excluded from the reserve itself. Additionally, the shoreline of Mattawa Lake has been completely excluded from the reserve as it is part of an Abitibi Freehold Block. Following the English River, west of the reserve, is the East English River Waterway Provincial Park. Directly east of the reserve is the Brightsand River Waterway Provincial Park.

Sale of lands is not permitted, except for minor dispositions in support of existing use (e.g. reconstruction of a septic system). Renewals of existing land use permits will be permitted. Requests for transfer of existing tenure located within the site will be considered, unless demonstrated conflicts exist.

The disposition of adjacent Crown land will be dealt with on a case-by-case basis.



Figure 2: East rapids on English Lake.

Unauthorized occupations of lands within the Conservation Reserve will be handled in accordance with approved policy, and any required structural removal will be at the owner's expense.

### **3.2 Existing and Proposed Development**

The old CN Rail Line runs parallel to and then through the reserve. Currently it is being used for timber harvesting purposes south of the reserve. It is, however, privately owned and not for public use. A number of other secondary and forest access roads exist in the surrounding area. Additionally, several active pits can be found throughout the surrounding area.

Facility infrastructure and development for recreational and/or educational purposes may be considered in the future if there is a demonstrated demand for such facilities. All provincial policies that guide development on Crown Land are applicable in Conservation Reserves. A more detailed management plan would be required prior to any development occurring. Such a plan would have to ensure that there would be no negative impacts to any habitat or

ecosystem pertinent to the values protected in this reserve.

### **3.3 Recreational Activities**

Most recreational activities that have traditionally been enjoyed in this area can continue provided they pose no threat to the natural ecosystems and features protected by the Conservation Reserve. Those uses that are regulated include hunting, fishing and trapping. Most other permitted activities are non-regulated (i.e. canoeing, exploring, snowmobiling). See Section 2.2.4 for the recreational uses for this Conservation Reserve as determined by the Recreation Resource Inventory. Additionally, there is at least one private recreation camp and 4 private boat caches within or immediately adjacent to the reserve.

Currently, four private (recreational) boat caches exist within the reserve. Recreational boat caches will continue to be a permitted use. New applications will be reviewed subject to a test of compatibility with the conservation of the ecological features of the site. In addition, the Northwest Region Boat Cache Program Guidelines will also apply.



Figure 3: Bull moose feeding on Sowden Lake. (picture taken by Denis Smyk)

Mechanical travel within the reserve, including the use of snowmobiles and All Terrain Vehicles, is permitted only on existing roads and trails. Off trail mechanized travel is permitted for retrieval of game only.

### **3.4 Commercial Activities**

No new activities, such as commercial logging, hydroelectric power development, new transmission lines (e.g. power or communications), pipelines, highways or roads, and the extraction of minerals, aggregate or peat, will be permitted.

A non-Native commercial fishery last operated on Sowden Lake in 1996. The primary species harvested was whitefish, with lower incidental limits for walleye and northern pike. As already mentioned, seven lodges and outpost camps, as well as eight commercial boat caches exist within/around the boundaries of the reserve. The reserve also contains 4 trap cabins.

Resource user boat caches for the commercial harvest of natural resources

(baitfish, commercial fur and wild rice) under a valid license, will continue to be a permitted use. New applications will be reviewed subject to the test of compatibility. Existing commercial boat caches (Tourism) will continue to be a permitted use unless there are significant demonstrated conflicts. In addition, the Northwest Region Boat Cache Guidelines will also be followed.

Boat caches only apply in the administrative area of the Northwest Boat Cache Program. This administrative line follows the former boundary between Ignace District Land Use Guideline Area #8 and Thunder Bay District Land Use Guideline Area #17.

An examination of the possible impact of activities on adjacent lands should be evaluated in the Forest Management Plan.

### **3.5 Aboriginal Interests**

Upper English River Conservation Reserve (C2340) lies within Treaty 3 area. To date, no Aboriginal Groups have voiced any issues in regards to this conservation reserve. Nothing in this Statement of Conservation Interest affects in any way existing or future Aboriginal or treaty rights.

### **3.6 Natural Resources Stewardship**

Natural Resource Stewardship involves the consideration of the following specific natural resource management categories.

#### **3.6.1 Vegetation Management**

Management within the conservation reserve will allow for the continuation of natural ecosystem processes and functions with minimal human interference.

Forest fire suppression will be carried out in accordance with the approved Fire Management Strategy for the surrounding lands. “Light on the Land” suppression techniques which do not unduly disturb the landscape will be encouraged where feasible. Examples of “light on the land” techniques may include limiting the number of trees felled or the use of heavy equipment or foam.

Opportunities for prescribed burning to achieve ecological or resource management objectives may be considered. These management objectives will be developed with public consultation prior to any prescribed

burning, and reflected in the document that provides management direction for this conservation reserve. Plans for any prescribed burning will be developed in accordance with the MNR Prescribed Burn Planning Manual, and the Class Environmental Assessment for Provincial Parks and Conservation Reserves (approval pending).

#### **3.6.2 Fish and Wildlife Management**

The existing Wildlife Management Unit, sport fishing regulations and management activities will apply.

#### **3.6.3 Landforms**

None of the landforms mentioned will be altered by landform modification activities such as filling and extraction. The extraction of aggregates and similar materials are not permitted.

Mineral exploration and extraction are not permitted within the CR.

### **3.7 Cultural Resources Stewardship**

An archaeological survey of the English River Area, which includes a portion of the Conservation Reserve, was completed in the late 1970s and incorporated into “Studies in West Patricia Archaeology No. 2: 1979 - 1980”. Common knowledge of the area suggests there to be an abundance of such values on this site. A licensed archaeologist with extensive knowledge of the area was recruited to assist during the Recreation Inventory. Further Cultural Inventories were deemed unnecessary at the time.



Figure 4: The English River east of Sowden Lake.

### **3.8 Client Services**

Given the focus on low key management, client information will be given on an inquiry basis only and will deal with the basic level of information with respect to access, natural heritage appreciation, recommended activities and boundaries.

### **3.9 Research**

Non-destructive research by qualified individuals will be encouraged to provide a better understanding of the natural values protected by the Conservation Reserve and to advance protection, planning and management.

In order to assist with enhancing the management guidelines for the reserve, the collection of additional earth and life science information during research is encouraged.

All research programs will require the approval of the Ministry of Natural Resources as will the removal of any

natural or cultural specimen. The establishment of permanent plots, observation points or facilities must also be approved and be compatible with the Conservation Reserve protection objective. Any site disturbed by research activities must be rehabilitated as closely as possible to its previous state.

### **3.10 Marketing**

Awareness of the Conservation Reserve is promoted through the Living Legacy web site. Intensive management activity to increase use is not required at this time.

## **4.0 Implementation**

Implementation of this Statement of Conservation Interest will primarily involve monitoring activities to ensure adherence to the management guidelines and responding to inquiries about the site.

Implementation of this statement and management of the reserve are the responsibility of the Ignace Area Supervisor. Partnerships may be pursued to address management needs.

## **5.0 Review and Revisions**

### **5.1 Review and Revisions**

This Conservation Reserve Statement of Conservation Interest will be reviewed on an ongoing basis.

If changes in management direction are needed at any time, the significance of the changes will be evaluated and further consultation a possibility. Any major amendments will require full public consultation and the approval of the District Manager and Regional Director. Affected clients will be immediately informed of proposed changes to this Statement of Conservation Interest.

### **5.2 Public Consultation**

#### **5.2.1 Results of Past Consultations**

Consultation on the Upper English River Conservation Reserve was conducted as part of the consultation on the Ontario's Living Legacy Land Use Strategy, July 1999. Subsequent consultation also took place in September 2002 to refine the boundary of the Conservation Reserve.

District Manager letters, totaling 119, were sent to Bowater Canada Inc., Tourist Outfitters, Advisory Committees, Trappers, Land Owners, Members of the Public, Non-Government Organizations and Government Organizations. Newspaper ads were placed in the Ignace Driftwood

September 25, 2002 and Dryden Observer on September 24, 2002.

First Nation Consultation letters were not sent out as direct consultation with Treaty 3 First Nations was carried out on a regional basis and concluded in November of 2002.

Concern about the effects of the reserve on private land owners was expressed. Issues were resolved during the consultation process. Thus, analysis of the issue was not needed.

#### **5.2.2 Present and Future Consultation**

More widespread consultation is not deemed necessary at this time.

#### **5.2.3 Author**

This Statement of Conservation Interest was prepared by Alicia H.L. Morin, OLL Intern, Information Management, Dryden District. Assistance was provided by Martin Pell (Dryden District Planner), members of the Ignace Area Team and John Carson (Dryden MNR Enforcement, Ignace Area).

## 6.0 References

Blackburn, C. 2002. *Earth Science Inventory – Upper English River Conservation Reserve – Draft*. Unpublished report.

Harris, A. and Foster, R. 2002. *Life Science Inventory – Upper English River Conservation Reserve – Draft*. Unpublished report.

Ontario Ministry of Natural Resources (OMNR). 1999. *Ontario's Living Legacy – Land Use Strategy*. Queen's Printer for Ontario.

Ontario Ministry of Natural Resources. 2003. *Upper English River Conservation Reserve (C2327) Recreation Resource Inventory Report*. Unpublished report.

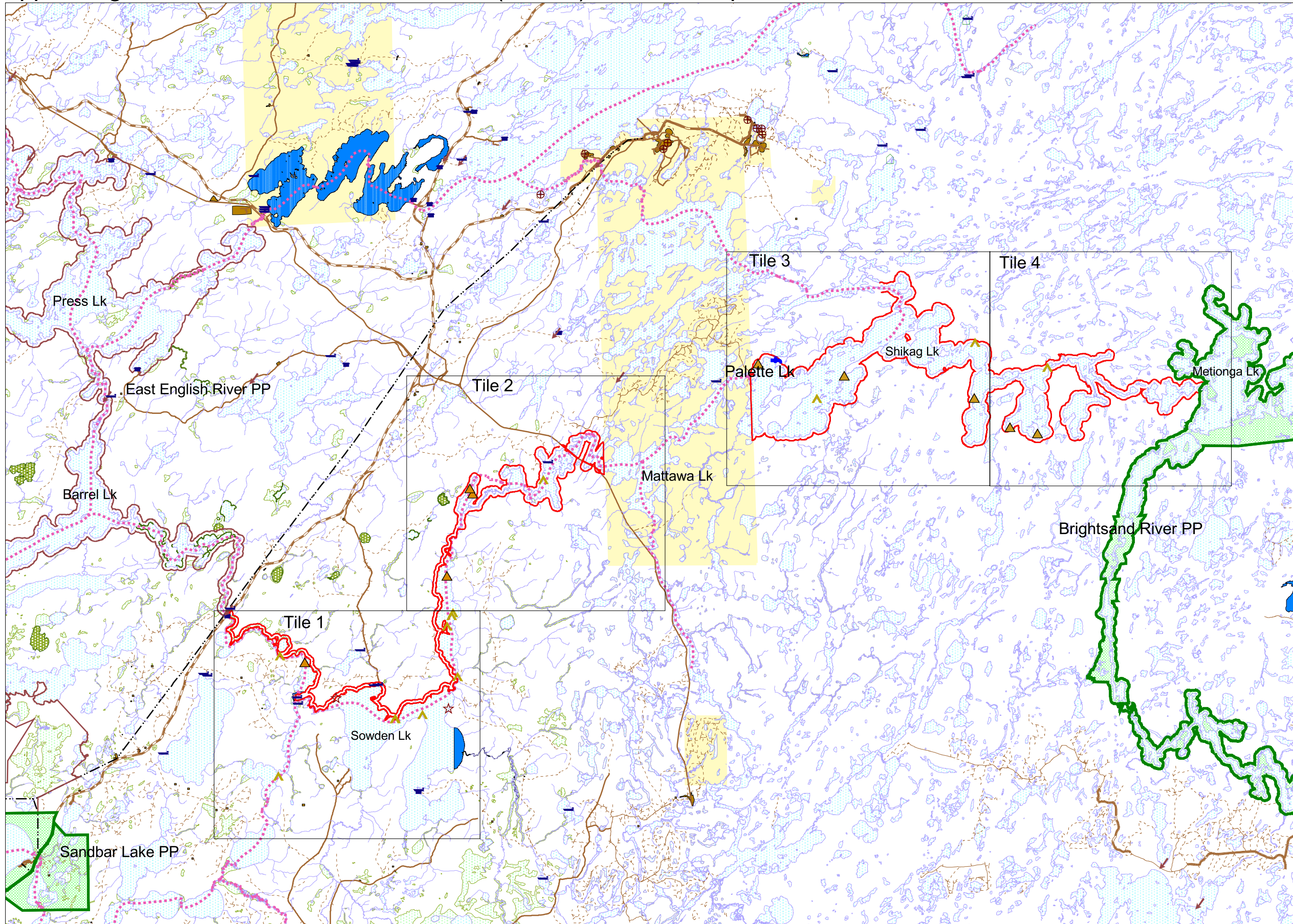
Ontario Ministry of Natural Resources, Lands & Natural Heritage, Lands & Waters. 1997. *Conservation Reserve Policy and Procedure PL 3.03.05*. 22 pp.

Pelleck, J.A. *Archaeological Survey of the Upper English River*. Studies in West Patricia Archaeology. No. 2: 1979-1980. Pp. 114-130. (edited by Reid, C.S. and Ross, W.A. of Historical Planning and Research Branch, Ontario Ministry of Culture and Recreation, 1981).

## **Appendix A:**

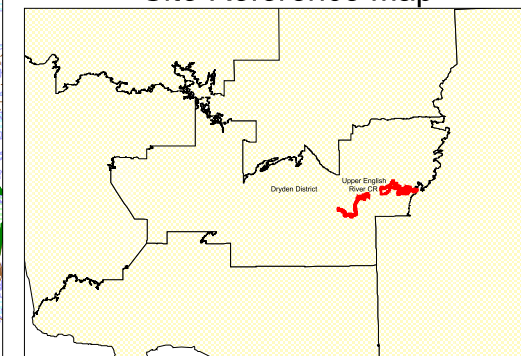
# **Upper English River Conservation Reserve (C2327) Values Map**

# Upper English River Conservation Reserve (C2327) - Values Map



	Upper English River CR
	Proposed OLL Sites
	Existing Provincial Parks
	Provincial Canoe Route
<b>Roads</b>	
	Primary
	Secondary
	Tertiary
	Railway
<b>Utility Lines</b>	
	Hydro Line
	Unknown Pipeline
	Unknown Transmission Line
<b>Rec Inventory Pnts</b>	
	beach
	camp
	firepit
	spring water
<b>Recreation Points</b>	
	Access Point
	Boat Cache, Commercial
	Designated Camping Site
<b>Tourist Establishments</b>	
	Main Base Lodge, Not Remote
	Main Base Lodge, Remote
	Outpost, Not Remote
	Outpost, Remote
	Pits
<b>Mines</b>	
	Abandoned
	Active
	Patent Land
	Wildrice
	Fish Sanctuary
	Wetlands
	Lakes
	Rivers/streams

## Site Reference Map

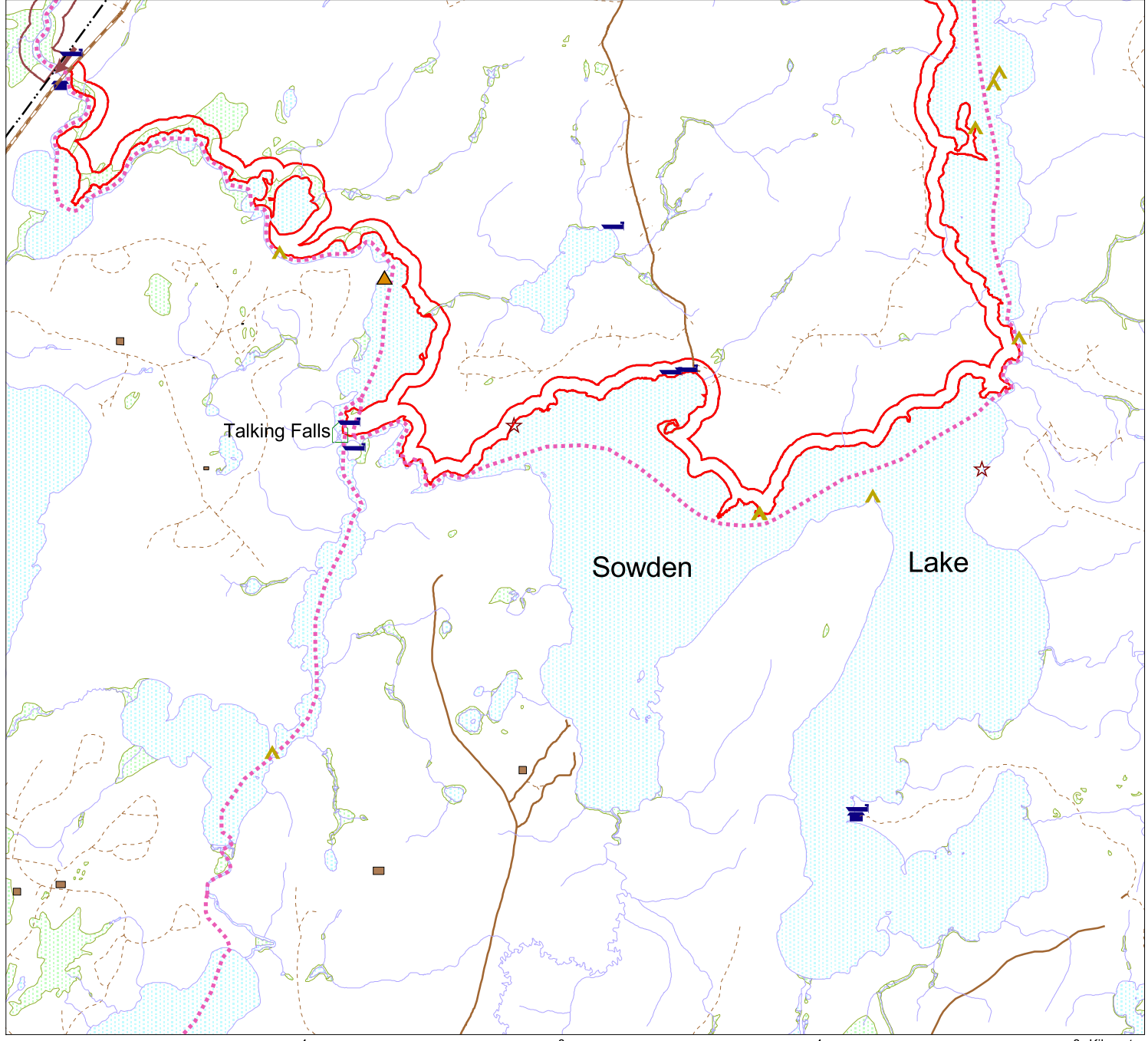


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

























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# Upper English River CR - Tile 1



1:90000 4 0 4 8 Kilometers

	Upper English River CR	<b>Utility Lines</b>		Access Point		Pits	
	Provincial Canoe Route		Hydro Line		Boat Cache, Commercial		Patent Land
<b>Roads</b>			Unknown Pipeline		Designated Camping Site		Wildrice
	Primary		Unknown Transmission Line	<b>Recreation Points</b>			Fish Sanctuary
	Secondary	<b>Rec Inventory Pnts</b>			beach		Wetlands
	Tertiary		camp		Main Base Lodge, Remote		Lakes
	Railway		firepit		spring water		Rivers/streams
			spring water	<b>Tourist Establishments</b>			
					Main Base Lodge, Not Remote		
					Outpost, Not Remote		
					Outpost, Remote		

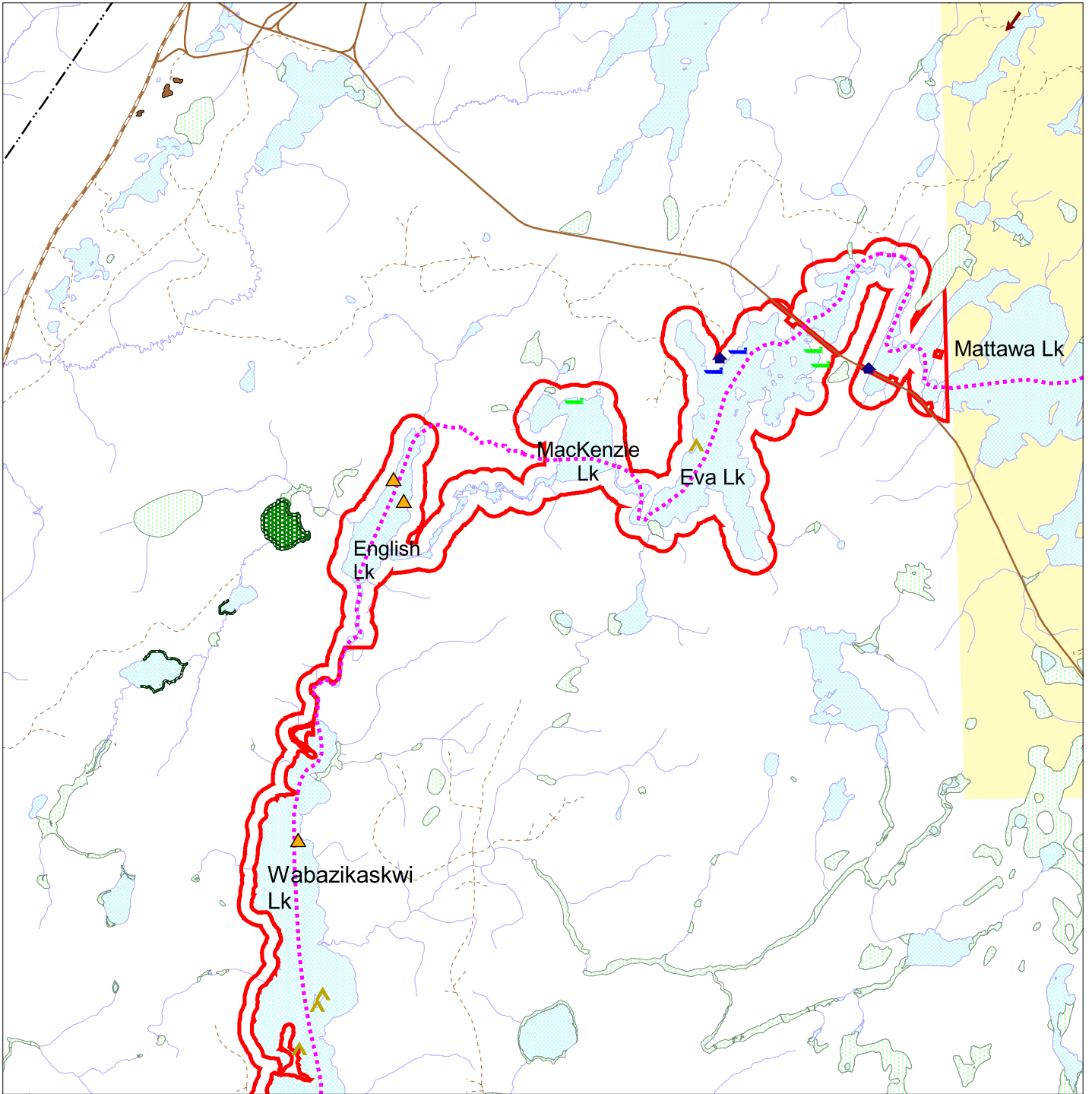


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# Upper English River CR - Tile 2



1:90000



Upper English River CR	<b>Utility Lines</b>	<b>Documented Rec Pnts</b>	Pits
Provincial Canoe Route	Hydro Line	Access Point	Patent Land
<b>Roads</b>	Unknown Pipeline	Boat Cache, Commercial	Wildrice
Primary	Unknown Transmission Line	Boat Cache, Private	Fish Sanctuary
Secondary	<b>Rec Inventory Pnts</b>	Designated Camping Site	Wetlands
Tertiary	camp	<b>Tourist Establishments</b>	Lakes
	shore lunch	Main Base Lodge, Not Remote	Rivers/streams
	spring	Main Base Lodge, Remote	
	beach	Outpost, Not Remote	
	fire pit	Outpost, Remote	

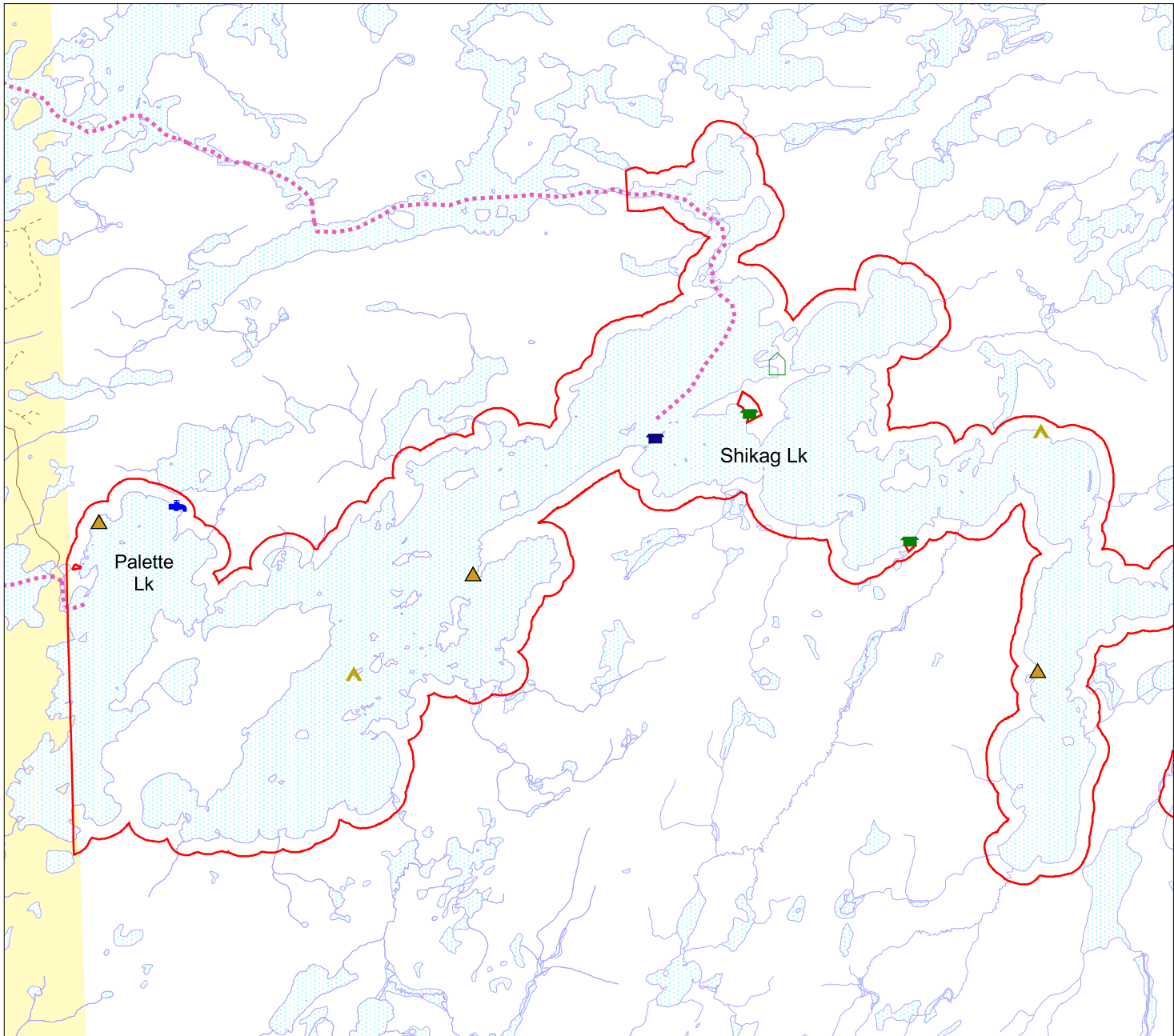


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



















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# Upper English River CR - Tile 3



1:90000



	Upper English River CR	<b>Utility Lines</b>		Access Point		Pits	
	Provincial Canoe Route		Hydro Line		Boat Cache, Commercial		Patent Land
<b>Roads</b>			Unknown Pipeline		Designated Camping Site		Wildrice
	Primary		Unknown Transmission Line				Fish Sanctuary
	Secondary	<b>Rec Inventory Pnts</b>			Main Base Lodge, Not Remote		Wetlands
	Tertiary		beach		Main Base Lodge, Remote		Lakes
	Railway		camp		Outpost, Not Remote		Rivers/streams
			firepit		Outpost, Remote		
			spring water				

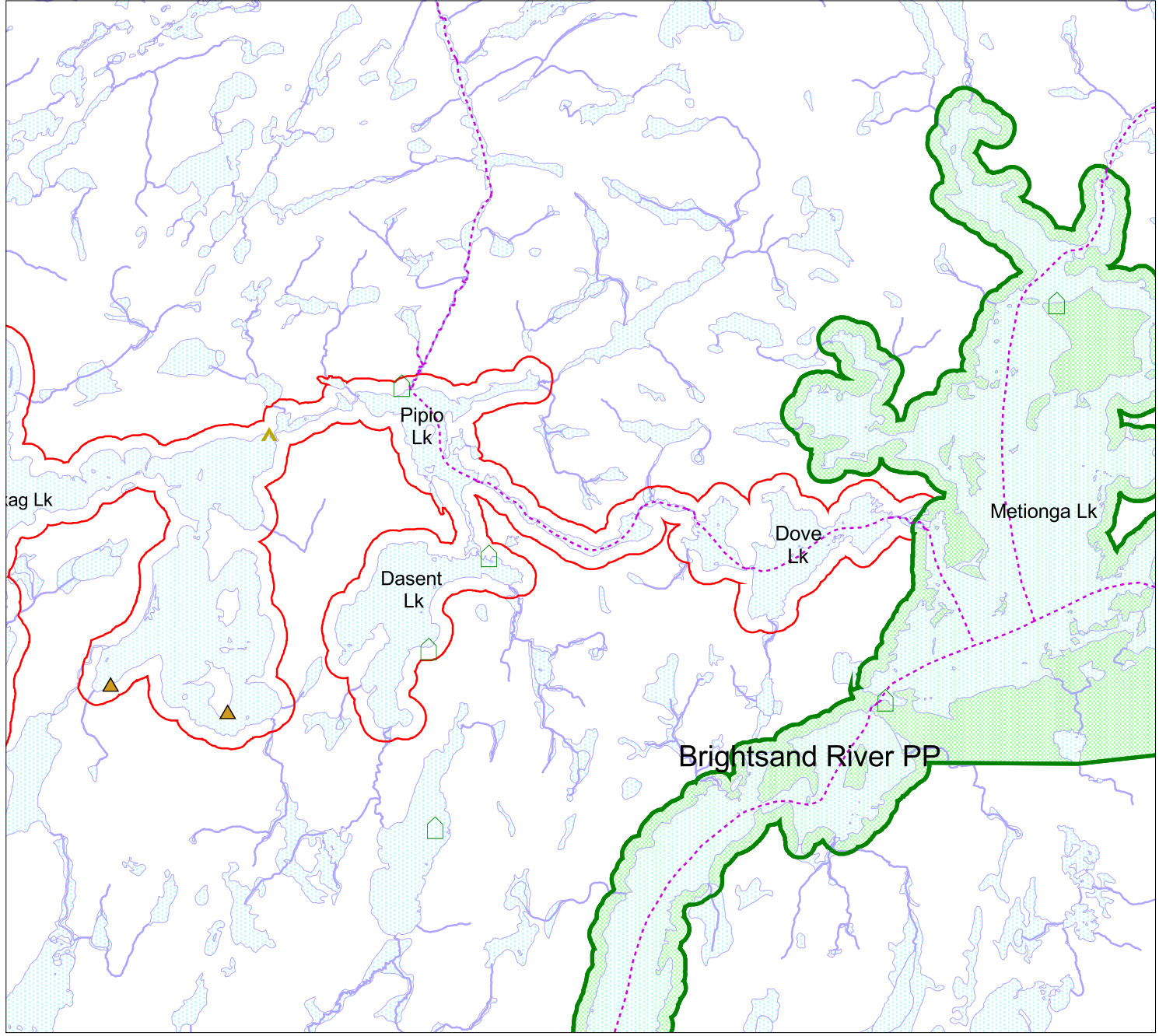


This map is illustrative only. Do not rely on it as being a precise indicator of routes, locations of features, nor as a guide to navigation.

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
























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# Upper English River CR - Tile 4



1:90000



	Upper English River CR		Utility Lines		Recreation Points		Pits
	Existing Provincial Parks		Hydro Line		Access Point		Patent Land
	Provincial Canoe Route		Unknown Pipeline		Boat Cache, Commercial		Wildrice
<b>Roads</b>			Unknown Transmission Line		Designated Camping Site		Fish Sanctuary
	Primary	<b>Rec Inventory Pnts</b>			Main Base Lodge, Not Remote		Wetlands
	Secondary		beach		Main Base Lodge, Remote		Lakes
	Tertiary		camp		Outpost, Not Remote		Rivers/streams
	Railway		firepit		Outpost, Remote		
			spring water				



This map is illustrative only. Do not rely on it as being a precise indicator of routes, locations of features, nor as a guide to navigation.

Aux fins d'illustration seulement. Ne doit pas servir... l'identification de l'emplacement des routes et des points géographiques, ni en tant que guide pour la navigation.

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## **Appendix B:**

### **Upper English River Conservation Reserve (C2327) Earth Science Checksheet**

## **DETAILED INFORMATION FOR SITE C2327 UPPER ENGLISH RIVER**

### **PROTECTION HISTORY**

The reserve was identified under the provincial Lands for Life - Ontario's Living Legacy Program as containing "representative landscape features and providing a waterway linkage from the Brightsand River Provincial Park to the English River system." (OMNR 1999).

No other earth science significance was assigned.

### **SETTING**

Upper English River Conservation Reserve runs from the outlet of Metionga Lake into Dove Lake in the east to where Highway 599 crosses the English River in the west, a distance of approximately 65 km. The reserve includes Dasent, Pipio, Shikag, Palette, Eva, MacKenzie, English, Wabazikaskwi and Sowden lakes. Excluded is a portion of the river system in the centre portion of the Reserve that includes Cutstone and Mattawa lakes, where it passes through private land known as Abitibi Block No. 7. The reserve consists of a 200 m wide buffer around the river and associated lakes, except at the west end where only the west shore of Wabazikaskwi Lake and the north shores of Sowden Lake and the river to Highway 599 bridge are included.

The reserve comprises 12 312 hectares, all located in Dryden MNR District.

### **EARTH SCIENCE FEATURES**

#### **Bedrock Geology**

Much of the region through which the Upper English River Conservation Reserve waterway passes has only been mapped by government geological surveys at very broad regional scale. The portion between Metionga Lake and Block No. 7 was included in a regional mapping program at 1:63 360 scale in the 1960s (Rogers 1964), and is somewhat outdated. No systematic mapping has been done of the portion downstream of Abitibi Block No. 7. Only the portion of the waterway downstream of Sowden Lake was visited in the field during the present reconnaissance inventory. The following account is based largely on study of Map 2044 (Rogers 1964), Map 2442 (OGS 1980), Map 2542 (OGS 1991) and Map 2576 (OGS 1992).

The reserve lies entirely within granitic and gneissic rocks of the central region (Blackburn et al 1991) of the Archean age Wabigoon Subprovince. Three suites

of rocks are present. Two older suites, of Middle to Late Archean age, are dominant within the reserve. A suite of granitic gneisses underlies most of the area between the central part of Shikag Lake in the east and central Sowden Lake in the west, but interrupted in the middle section, from the west end of Mattawa Lake to central Wabazikaskwi Lake, by foliated to massive tonalite to granodiorite suite rocks. The regional trend of gneissosity at Shikag Lake is to the southwest, accounting for the same trend of the main arm of the lake. Gneisses were observed near Sowden Lake (stations 6 and 7). Here the gneisses are granitic, with mafic amphibolite layers and lenses, and the gneissosity is cut by later aplite and pegmatite dikes (photo 1). As well as the section within the gneissic suite, foliated tonalite to granodiorite suite rocks also underlie the extreme east section of the reserve, from the west end of the Brightsand River Provincial Park at Metionga Lake, through Dove Lake to Pipio Lake.

Portions of two late Archean age batholiths are crossed by the waterway. Rocks of these batholiths are of more potassic, granite to granodiorite, composition than the earlier foliated tonalite to granodiorite suite. Rocks of one of these batholiths, delineated on Maps 2542 and 2576 (OGS 1991 and 1992), underlie Dasent Lake and the two large bays at the east end of Shikag Lake. This writer knows of no name given to the batholith, and it is here named the Dasent Lake batholith. A small portion of the second batholith, the Indian Lake batholith, is crossed by the waterway at the west end of the reserve. Only a small portion at its extreme north end is represented: the batholith extends from Sowden Lake westward to Mameigwess Lake, and to Ignace in the south (OGS 1991, 1992). The batholith is characteristically granodioritic, with potassic feldspar megacrysts (Blackburn et al 1991). Outcrops investigated during the present inventory (stations 2 and 5) are of massive, non-foliated, medium to coarse-grained granodiorite to quartz monzonite. At station 2, on a forest access road just outside the reserve boundary (photo 2), hornblende is dominant. At Talking Falls (station 5: photo 3) the mafic mineral is biotite.

### **Surficial Geology**

Because only the portion of the waterway downstream of Sowden Lake was visited in the field during the present reconnaissance inventory, the present account is based largely on study of Engineering Geology Terrain Study Maps (Mollard 1980a, b).

Following deposition of till, about 11 000 years ago during the Late Wisconsinan stage, Pleistocene period, silt and clay were deposited in glacial Lake Agassiz. These are overlain by glaciofluvial material deposited during glacial retreat. Recent organic deposits are also represented.

Glaciolacustrine clays and silts occur at three places in the reserve. One is on the north side of the central portion of Shikag Lake. A second is at Eva Lake,

where the Canadian National Railway line crosses the English River. The third is in the extreme downstream portion of the reserve, between Pinaemodal Lake and the Highway 599 crossing. In this latter section a 4 m high clay bank was observed at station 9 (photo 4), and silty clay was augured to a depth of 0.5 m at station 8. No layering indicative of varves was encountered.

Shallow till over bedrock predominates at Pipio Lake in the east, in the western portion of Shikag Lake, and in the section of the river between the rapids exiting from MacKenzie Lake and Franks Lake just below Talking Falls.

Glaciofluvial deposits are predominantly oriented in a northeast to southwest direction. They are mostly interpreted (Mollard 1980a, b) to be outwash plains, with minor kame fields. Two systems cross the reserve area. The most prominent is at the east end of Shikag Lake, where a 10 km section of the river system crosses an outwash plain. A number of esker ridges follow this outwash plain, mostly outside the confines of the 200 metre reserve along shorelines. The second, a considerably smaller system, is at the west end of the waterway reserve, adjacent to the area of glaciolacustrine deposits. A kame field is interpreted (Mollard 1980a) in this system to the north of the 200 metre reserve along the shoreline (station 4: photo 5).

Recent deposits are not prominent. Organic terrain is present on the north side of Shikag Lake in its central section, while the present survey encountered sand beaches, particularly on the north side of Sowden Lake where a 100 m long beach (station 1: photo 6) faces toward the west, the prevailing storm wind direction.

## **SIGNIFICANCE**

The portion of the English River that constitutes Upper English River Conservation Reserve crosses a considerable portion of the granitic and gneissic central region of the Wabigoon Subprovince. It gives access to three of the dominant lithologic suites. It is considered to be of **regional significance**.

Because much of the waterway was not accessed, no rating can be given by the present surveyor of the relative importance of the surficial materials of the reserve.

## **SENSITIVITY**

Bedrock features are not subject to degradation by either human activity or natural processes. Surficial deposits, such as the outwash deposits and eskers where present, may be subject to degradation by disturbance of vegetation cover and by exploitation for gravel construction materials. Natural processes, such as

erosion along lakeshores, are unlikely to degrade these features by anything but minimal amounts. They do in fact serve to keep the internal architecture of eskers exposed.

## **RECOMMENDATIONS**

Conservation Reserve status adequately protects the earth science features present in Upper English River Conservation Reserve.

## **REFERENCES**

Mollard, D.G. 1980a. Press Lake, Data Base Map, Northern Ontario Engineering Geology Terrain Study; Ontario Geological Survey, Map 5062, scale 1:100 000.

Mollard, D.G. 1980b. Metionga Lake, Data Base Map, Northern Ontario Engineering Geology Terrain Study; Ontario Geological Survey, Map 5063, scale 1:100 000.

OGS 1980. Sioux Lookout - Armstrong, Districts of Kenora and Thunder Bay, Geological Compilation Series; Ontario Geological Survey, Map 2442, scale 1:253 440.

OGS 1991. Bedrock Geology of Ontario, west-central sheet; Ontario Geological Survey, Map 2542, scale 1:1 000 000.

OGS 1992. Tectonic Assemblages of Ontario, west-central sheet; Ontario Geological Survey, Map 2576, scale 1:1 000 000.

Rogers, D.W. 1964. Metionga Lake area; Ontario Geological Survey, Map 2044, scale 1:63 360.

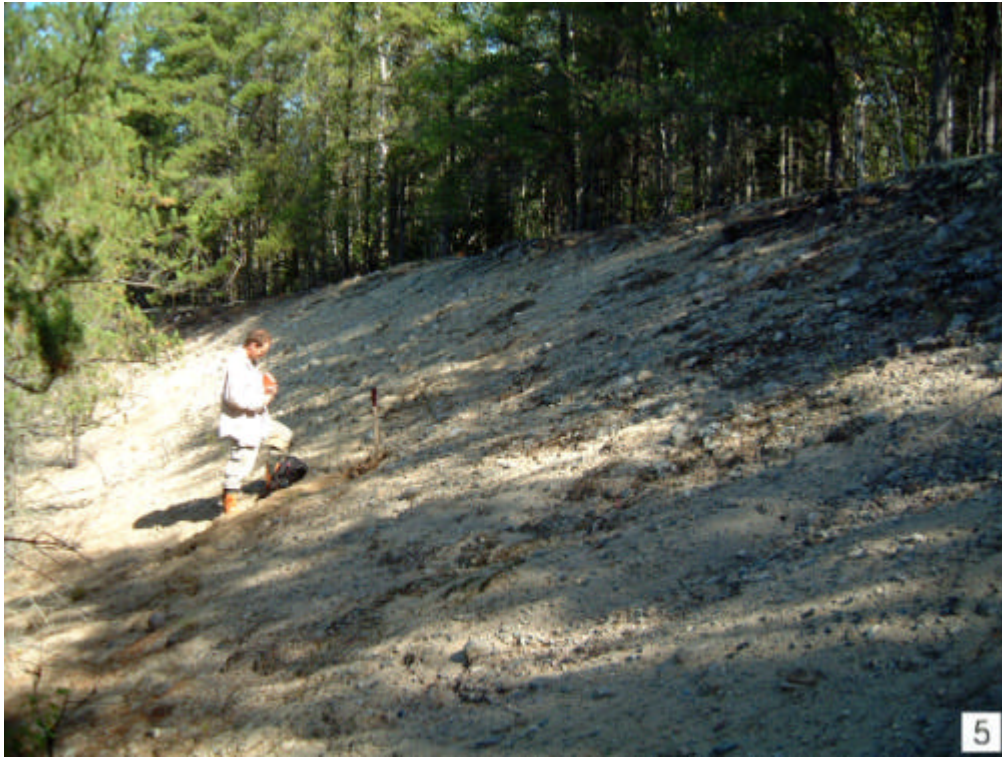
OMNR 1999. Ontario's Living Legacy: Land Use Strategy; Ontario Ministry of Natural Resources, 136 p., accompanied by map, scale 1:1 200 000.

## PHOTOGRAPHS

1. Granitic gneiss with amphibolite layers and xenoliths, cut by aplite dikes. Near Sowden Lake. (Stn. 6; UTM 0622779E 5493272N)
2. Massive, medium grained granodiorite to quartz monzonite of the Indian Lake batholith. Near Sowden Lake. (Stn. 2; UTM 0628596E 5491395N)
3. View downstream at Talking Falls, west of Sowden Lake. (Stn. 5; UTM 0622070E 5490841N)
4. Four metre high clay bank exposed on the north side of the English River between Pinaemodal Lake and the Highway 599 bridge. (Stn. 9; UTM 0618672E 5494899N)
5. Unbedded, cobble- to sand-sized deposit of probable kame or esker origin. Gravel pit on east side of Sowden Lake forest access road north of the reserve. (Stn. 4; UTM 0626538E 5495464N)
6. Sand beach at boat launch into Sowden Lake, 14 km down forest access road from Highway 599. (Stn. 1; UTM 0627716E 5491433N)







C2327 Upper English River

**ADDITIONAL STATIONS**

Stn. 3	UTM 0627745E 5491778N
Stn. 7	UTM 0621501E 5493982N
Stn. 8	UTM 0620529E 5494608E

# EARTH SCIENCE INVENTORY CHECKLIST

NAME <b>Upper English River</b>	OLL ID <b>G2327</b>
MAP NAME <b>Empire Lake, Shika</b>	NTS Number <b>52G/09,10,11,15</b>
	UTM reference <b>Z15 639000E 550</b>

OBM Number	LATITUDE	LONGITUDE	ELEVATION - MAX	ELEVATION - MIN
	<b>49° 41' N</b>	<b>92° 00' W</b>	<b>460m</b>	<b>401m</b>

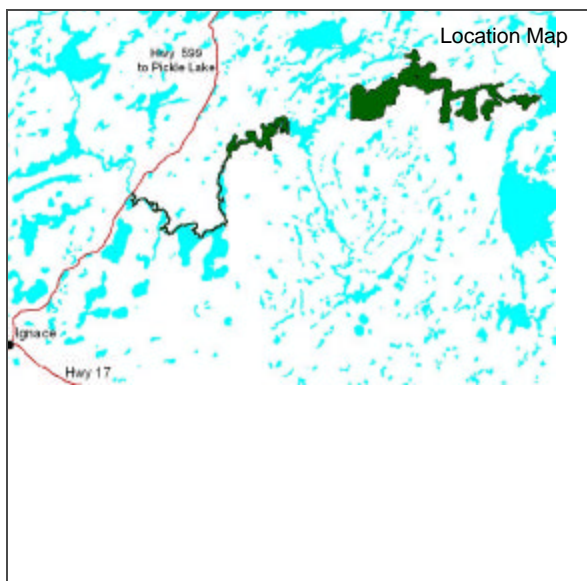
COUNTY	TOWNSHIP
<b>District of Kenora</b>	<b>unorganized</b>

LOT	CONCESSION
<b>NA</b>	<b>NA</b>

AREA (ha)	OWNERSHIP
<b>12,312.00</b>	<b>Crown</b>

<input type="checkbox"/>	YEAR	ROLL	FLIGHT LINE	NUMBER
Air	<b>96-37-4919B-27to34;96-37-4920B-78to82+84-87;96-</b>			
Photo	<b>25-4921B-12to14;96-23-4922B-175to177;96-44-</b>			

MNR REGION	MNR DISTRICT	PARK ZONE
<b>Northwest</b>	<b>Dryden</b>	<b>Northwest</b>



EARTH SCIENCE FEATURES	<p>Archean age Wabigoon Subprovince: granitic and gneissic rocks. Three suites: 1) Middle to Late Archean granitic gneisses; 2) Middle to Late Archean tonalite to granodiorite; 3) Late Archean granite to granodiorite. Suite 3 represented by portions of Indian Lake and Dasent Lake batholiths.</p> <p>Pleistocene age, Late Wisconsinan stage: glaciolacustrine clays and silts; shallow till; two systems of glaciofluvial outwash plains, kame fields, esker ridges. Minor Recent organic terrain, sand beaches.</p>
------------------------	--

SIGNIFICANCE	<p>Reserve crosses a considerable portion of the granitic and gneissic central region of the Wabigoon Subprovince - regional significance.</p> <p>Surficial materials not rated.</p>
--------------	--

SENSITIVITY	<p>No features or landforms sensitive to natural impacts. Outwash deposits and eskers may be sensitive to cultural impacts (exploitation for gravel construction materials).</p>
-------------	--

RECOMMENDATIONS	<p>Conservation Reserve status adequately protects earth science features.</p>
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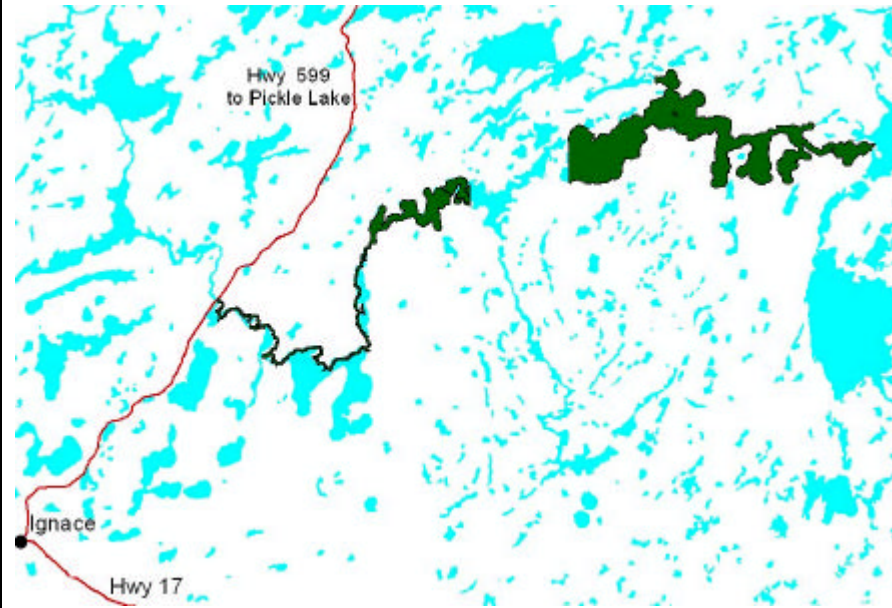
MAJOR REFERENCES	<p>Mollard 1980, OGS Maps 5062 and 5063; OGS 1980, Map 2442; OGS 1991, Map 2542; OGS 1992, Map 2576; Rogers 1964, OGS Map 2044.</p>
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DATE COMPILED	COMPILER
<b>February 15, 2003</b>	<b>C.E. Blackburn, Blackburn Geological Services</b>

## **Appendix C:**

### **Upper English River Conservation Reserve (C2327) Life Science Checksheet**

## C2327      UPPER ENGLISH RIVER

<b>NATURAL HERITAGE AREA – LIFE SCIENCE CHECKSHEET</b>						
<b>Name</b>  <b>Upper English River</b>	<b>Map Name</b> Empire Lake Shikag Lake Mattabi Glitter Lake		<b>Map Number</b> 52G9 52G10 52G11 52G15		<b>UTM Ref.</b> Zone 15 639000E 5505000N	
<b>County</b> Kenora	<b>Lat.</b> 49° 41' N	<b>Long.</b> 91° 04' W	<b>NAD</b> 83	<b>Min. Alt.</b> 401 m	<b>Max. Alt.</b> 460 m	
<b>Locality</b> 30 km northeast of Ignace						
<b>Township</b> unorganized						
<b>Area</b> 12,312 ha						
<b>Ownership</b> Crown						
<b>MNR Region</b> Northwest						<b>Ecoregion and Ecodistrict</b> 3W-2
<b>Landform Unit</b> See Table 3						
<b>MNR District</b> Dryden, Thunder Bay						
<b>Aerial Photographs</b> Year-Roll-Flight Line-Numbers 96-37-4919B-27 to 34 96-37-4920B-78 to 82+84-87 96-25-4921B-12 to 14 96-23-4922B-175 to 177 96-44-4923-138 to 144 96-28-4924-229 to 233+237 to 254 96-28-4925-158 to 174 96-16-4926-90 to 96 96-28-4927-70,71						

### Physical and Biological Features

The Upper English River Conservation Reserve covers 12,312 hectares, consisting of a 200 m wide buffer around the English River and associated lakes. It encompasses approximately 65 kilometers of the English River, extending from Highway 599 in the west and ending at Dove Lake in the east. The Conservation Reserve is divided into east and west portions by a large block of private land between Palette Lake and Eva Lake. The eastern portion of the site includes all of Dove Lake, Dasent Lake, Shikag Lake and most of Palette Lake. The western section of the conservation reserve includes all of Eva Lake, English Lake and MacKenzie Lake, and the west shore of Wabazikaskwi Lake and the north shores of Sowden Lake and Frank's Lake to the Highway 599 bridge.

Upper English River Conservation Reserve has a wide range of glacial landforms and associated forest conditions. The lower part of the Conservation Reserve (downstream of Frank's Lake) has glaciolacustrine silt and clay soils supporting rich, trembling aspen-dominated mixed forests (ES29). Black ash and balsam poplar swamps (ES38) are frequent on the river floodplain along with thicket swamps (ES44) and meadow marsh (ES46) in wetter areas. Upland cedar stands (ES17) are also found on the rich clays. Some recent fluvial deposits are found on the river floodplain.

Farther upstream, the landscape becomes dominated by black spruce and jack pine on ground moraine (ES13, ES14, ES20) and shallow soils (ES12). Patches of outwash and lacustrine deposits are found throughout the area. An extensive area of glacial outwash around Shikag Lake supports jack pine and black spruce with variable amounts of trembling aspen and white birch on sandy soils (ES13, ES14).

Mature white pine stands are restricted to warmer than average sites along the river and on lakeshores. One such stand at Talking Falls had shallow silty loam soil with a dense understorey of mountain maple and other tall shrubs (ES24).

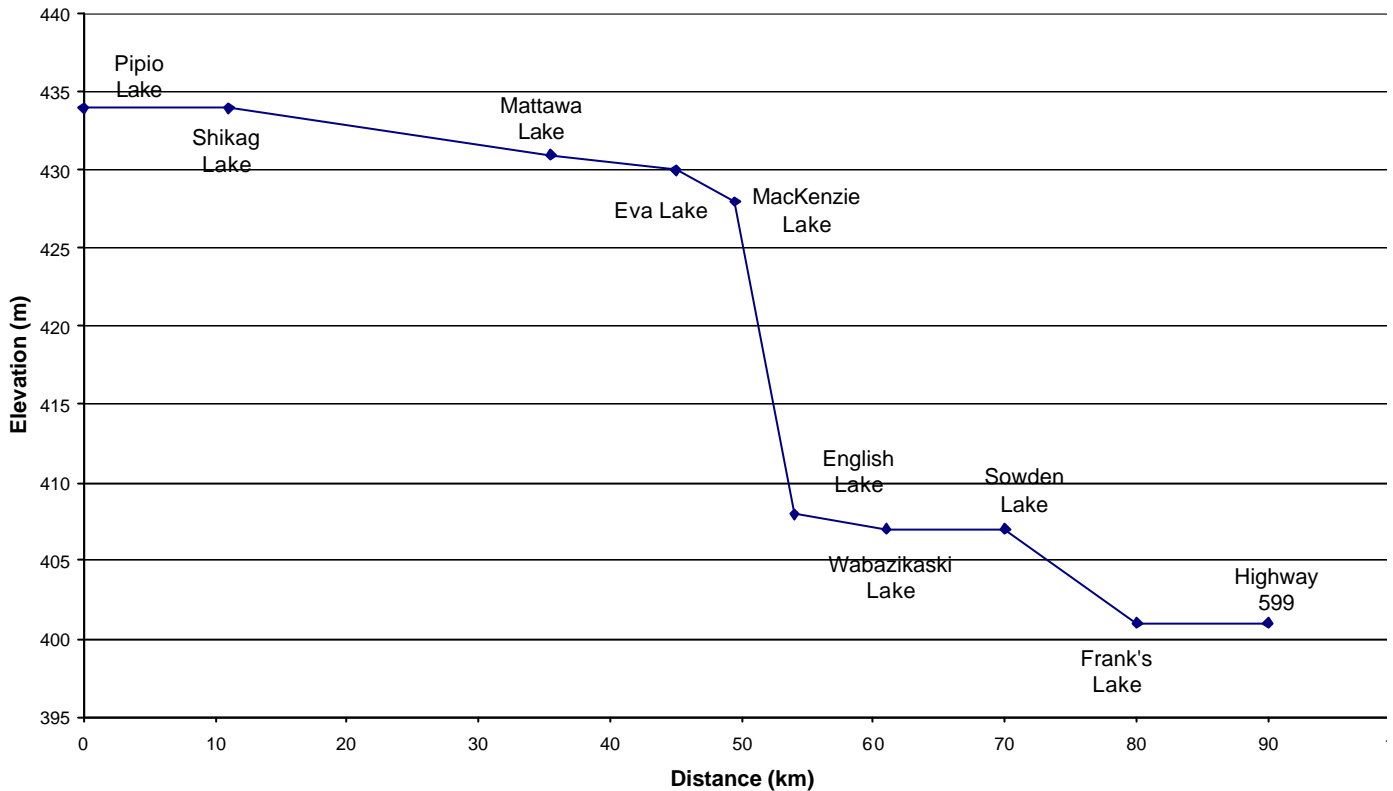
**Table 1. Ecosites of Upper English River Conservation Reserve (derived from Forest Resource Inventory data provided by OMNR).**

	Description	Area (ha)	Proportion (%)*
<b>Very Shallow Soils</b>			
ES12	Black Spruce - Jack Pine: Very Shallow Soil	35	1
ES13	Jack Pine-Conifer: Dry-Moderately Fresh, Sandy Soil	62	1
<b>Sandy- Coarse Loamy Soils</b>			
ES14	Pine-Spruce Mixedwood: Sandy Soil	74	1
ES16	Hardwood - Fir - Spruce Mixedwood: Sandy Soil	51	1
ES17	White Cedar: Fresh - Moist, Coarse - Fine Loamy Soil	36	1
ES19	Hardwood - Fir - Spruce Mixedwood: Fresh, Sandy - Coarse Loamy Soil	1066	19
ES20	Spruce - Pine / Feathermoss: Fresh, Sandy - Coarse Loamy Soil	637	12
ES21	Spruce - Fir Mixedwood: Fresh, Coarse Loamy Soil	2178	40
ES22	Spruce-Pine / Ledum / Feathermoss: Moist, Sandy-Coarse Loamy Soil	502	9
ES23	Hardwood Fir – Spruce Mixedwood: Moist, Sandy-Coarse Loamy Soil	135	2
<b>Fine Loamy – Clayey Soils</b>			
ES25	Pine – Spruce / Feathermoss: Fresh, Silty Soil	20	<1
ES26	Spruce - Pine / Feathermoss: Fresh, Fine Loamy - Clayey Soil	2	<1
ES27	Fir - Spruce Mixedwood: Fresh, Silty - Fine Loamy Soil	11	<1
ES28	Hardwood-Fir-Spruce Mixedwood: Fresh, Silty Soil	39	1
ES29	Hardwood - Fir - Spruce Mixedwood: Fresh, Fine Loamy - Clayey Soil	1	<1
ES31	Spruce-Pine / Feathermoss: Moist, Silty-Clayey Soil	11	<1
ES32	Fir - Spruce Mixedwood: Moist, Silty - Clayey Soil	108	2
ES33	Hardwood - Fir - Spruce Mixedwood: Moist, Silty - Clayey Soil	115	2
<b>Treed Wetlands</b>			
ES35	Poor Swamp: Black Spruce: Organic Soil	222	4
ES36	Intermediate Swamp: Black Spruce (Tamarack): Organic Soil	160	3
ES37	Rich Swamp: Cedar (Other Conifer): Organic Soil	4	<1

\*terrestrial area only

Most of the Conservation Reserve is comprised of water. Waterbodies include the English River and interconnected lakes: Dove, Pipio, Shikag, Dasent, Palette, Eva, MacKenzie, English, Wabazikaskwi, Sowden, and Frank's lakes.

The reserve spans two watersheds: Dove Lake flows east into the Brightsand River watershed; the rest of the area flows west into the English River watershed. The English River flows into the south side of Mattawa Lake, outside the reserve. Elevation drops about 30 m over the waterway with the greatest drop at a set of rapids between MacKenzie and English lakes (Figure 1).



**Figure 1. Elevation profile of Upper English River Conservation Reserve.**

The aquatic environment includes both lacustrine and riverine habitats. Most lakes are relatively shallow and mesotrophic (morphoedaphic index values of 3.6 to 16.7) (Table 2). Pipio and English lakes are deeper and more oligotrophic (morphoedaphic index values = 2.3 to 2.8). Downstream, the English River flows through fine textured silty and clay soils, increasing turbidity and nutrient levels in the lakes. Bedrock and boulder shores predominate upstream of Sowden Lake. Eroding clay banks are frequent on the lower stretch of the river where it flows through lacustrine soils. Extensive wetlands, including wild rice marshes, are common on the lower part of the river. Royal fern, an indicator of natural water regime, is present on the riverbanks.

**Table 2. Physical parameters of major lakes in Upper English River Conservation Reserve (data from Aquatic Habitat Inventory database, OMNR)**

	Area (ha)	Littoral Zone (%)	Max Depth (m)	Mean Depth (m)	Perimeter (km)	Morpho-edaphic Index	Secchi Depth (m)
Pipio Lake	152	-	16.0	7.4	13.3	2.8	3
Shikag Lake	4527	88	19.5	2.4	118.3	11.4	1.4
Eva Lake	436	84	12.8	3.7	23.2	5.9	2
English Lake	109	43	22.6	9.5	7.1	2.3	2
Wabazikaskwi Lake	695	62	15.6	5.2	31.5	4.2	2
Sowden Lake	3719	48	18.3	6.3	50.2	3.6	2

### Representation

Table 4 summarizes representation of landform vegetation types of the Upper English River Conservation Reserve for Ecodistrict 3W-2 recently refined by Ontario Parks (Steve Kingston pers. comm.). An older version of the landform vegetation representation matrix based on the original Ontario Living Legacy gap analysis is included for comparison (Table 5).

Table 4 accurately reflects the high diversity of LV types within Upper English River Conservation Reserve. Among the LV types not confirmed in the field are those on Glaciofluvial Ice Contact Deposits deposits. These LV types are associated with kame fields, none of which were confirmed in the field, but which probably exist in inaccessible portions of the reserve. Treed bogs were not confirmed in the field. Total area of treed bog is less than 30 ha, occurring in small dispersed patches, and may be misclassified conifer swamp

The Conservation Reserve contributes little to representation targets (less than 10% of any Ecodistrict target; Table 4) due to the high diversity of landforms and vegetation types, but relatively little area of any particular LV type.

Upper English River contains a representative section of a free-flowing large river system and the associated marshes and shoreline habitats.

### Condition

Upper English River receives moderately heavy use by anglers near access points, but rapids on the river restrict boat access to some sections of river. Public access points are at the bridge on Highway 599 and at the north end of Sowden Lake. A former rail line, now a private road, crosses the Conservation Reserve at Eva Lake.

Commercial fishing apparently took place on Wabazikaski Lake in the 1960's (OMNR lake survey data).

The area surrounding the Conservation Reserve is under active forest management and is largely surrounded by cutover and logging roads. There is no evident cutover within the

reserve and it has been surrounded by buffers to protect fish habitat, water quality and tourism values for many years.

### **Diversity**

Upper English River Conservation Reserve has a wide range of forest conditions associated with the diverse glacial landforms. A total of 32 LV types (Table 4) and 26 ecosites (Table 1, Table 3) are represented.

The influence of the English River contributes to the diversity of habitats. The river floodplain has warmer than average microclimate and rich alluvial soils. Wetlands and the riparian environment add variability to the vegetation. The English River itself is made up diverse habitats including fast moving stretches with riffles, falls, and pools, as well as slow moving stretches with wild rice and other marsh vegetation.

### **Ecological Function**

Upper English River Conservation Reserve makes a link between Brightsand River Provincial Park and East English River Provincial Park, completing a band of almost continuous protected habitat along waterways joining Lake Nipigon, Wabikimi Provincial Park and Lac Seul.

Although the Conservation Reserve encompasses a relatively large area, its narrow, linear arrangement results in high degree of edge with virtually no core forest habitat needed by marten, woodland caribou and other area-sensitive species. Maintaining these species will depend on forest management practices in the surrounding forest.

Only one shore of some of the lakes is protected, leaving these water bodies vulnerable to changes in water quality and human use from outside the Conservation Reserve.

### **Special Features**

The south end of the Upper English River Conservation Reserve marks the southern limit of woodland caribou (S3S4?) range in northwestern Ontario. Aerial surveys found heavy woodland caribou activity in the Pipio and Shikag lakes area in the winters of 1988 and 1989 (Harris 1990). Although the Conservation Reserve does not contribute large core winter habitat blocks for caribou, it may protect travel corridors and summer habitat along Pipio and Shikag lakes.

Three bald eagle (S4B) nests and several osprey nests occur in the Conservation Reserve and several archaeological sites, including pictographs are present (OMNR 2002).

The Upper English River is a significant riverine habitat containing a representative section of a free-flowing large river system. The large wild rice stands on the lower river are significant in the ecodistrict.

## **Recommendations**

1. In order to protect shoreline communities and riverine processes, dams or other water regulation structures should not be installed in the conservation reserve nor outside its boundaries if they would affect water levels or conditions inside the park.
2. Conservation Reserve managers should continue to actively participate in the English River Forest management planning team.

## **Significance Level and Summary of Major Representative Values**

Upper English River Conservation Reserve is provincially significant due to its high diversity of landform vegetation types (Table 4). The Conservation Reserve marks the southern limit of woodland caribou range and may protect travel corridors and summer habitat along the waterway.

This section of the English River system is significant in that, unlike most large river systems in northwestern Ontario, it is uninfluenced by water level regulation by dams.

## **Major Information Sources**

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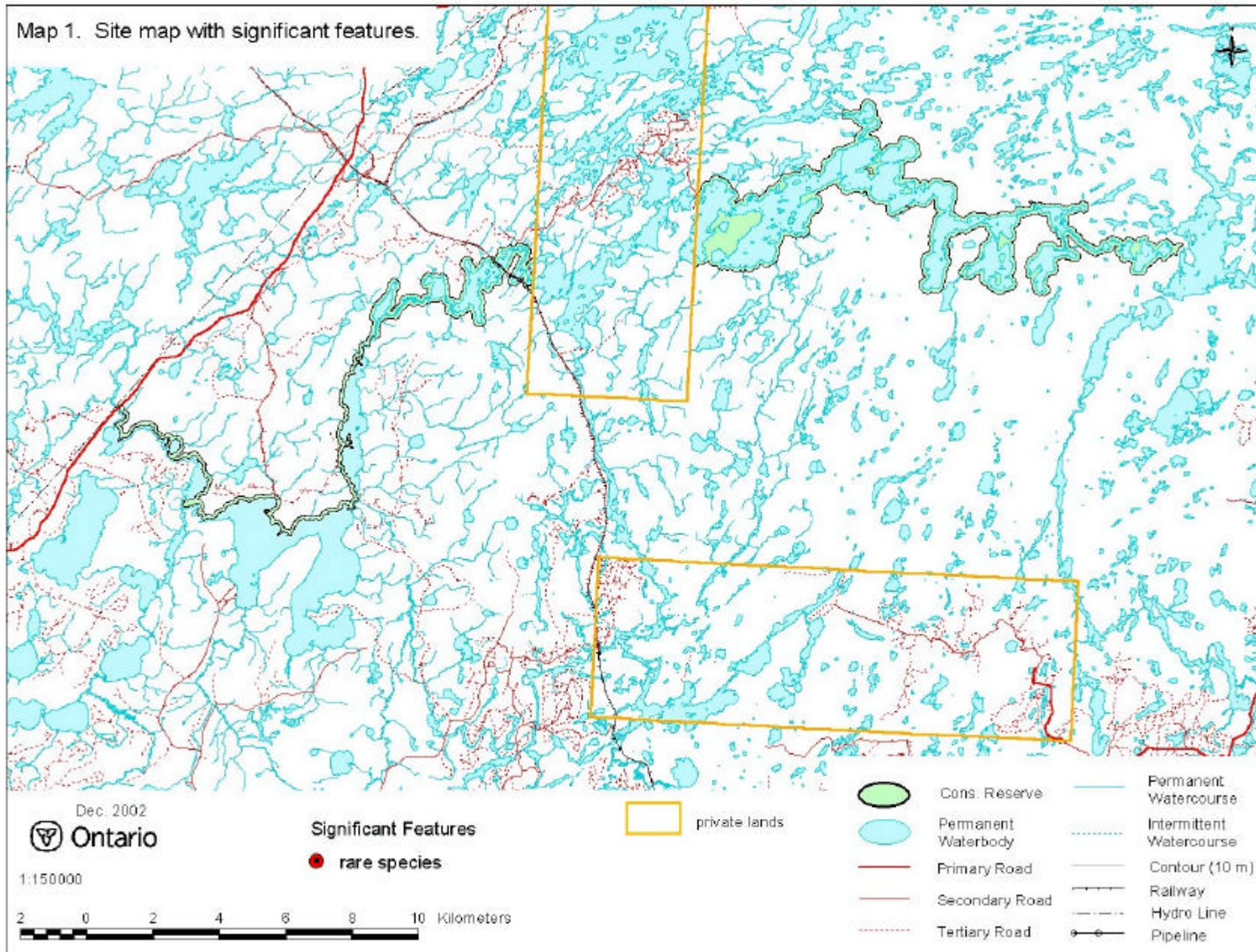
## **Date Compiled**

**February 24, 2003**

## **Compilers**

**Allan Harris and Robert Foster, Northern Bioscience**

Map 1. Site map with significant features.





**Photo 1. Talking Falls, English River.**



**Photo 2. Sand beach on Sowden Lake.**



**Photo 3, 4. Rich mixed forest.**



**Photo 5. Exposed silty bank on the English River.**



**Photo 6. Shore fen community.**

**Table 3. Rapid assessment plot summary from Upper English River.**

<b>Plot No.</b>	<b>V / W Type</b>	<b>ES Type</b>	<b>Date</b>
1	W7	ES48	September 17 2002
2	V4	ES16	September 17 2002
3	W9	ES47	September 17 2002
4	V12	ES24	September 17 2002
5	V21	ES17	September 17 2002
6	W12	ES46	September 17 2002
7	V2	ES38	September 17 2002

**Table 4. Landform – vegetation (LV) type representation for Upper English River in Ecodistrict 3W-2 (analysis by Ontario Parks; Steve Kingston pers. comm.).\***

LV_Description	Ecodistrict 3W2				Upper English River			
	Area (ha)	Representation Target		Protected Areas (ha)	Area (ha)	Contribution to Ecodistrict Target (%)	Contribution to Existing Protection (%)	Confirmed in Field **
		%	ha					
Bedrock-Mixed Forest – mainly Deciduous	206,059	12	24,727	8,508	181	1	2	X
Bedrock-Dense Deciduous Forest	169,029	12	20,283	5,581	523	3	9	X
Bedrock-Dense Coniferous Forest	166,077	12	19,929	7,683	572	3	7	X
Bedrock-Mixed Forest – mainly Coniferous	141,555	12	16,987	6,124	496	3	8	X
Bedrock-Sparse Coniferous Forest	85,657	12	10,279	4,004	137	1	3	X
Glaciofluvial outwash deposits-Dense Coniferous Forest	62,175	12	7,461	2,131	146	2	7	X
Bedrock-Treed Bog	48,230	12	5,788	2,279	16	<1	1	-
Till-Mixed Forest – mainly Deciduous	44,858	12	5,383	2,014	17	<1	1	X
Glaciofluvial outwash deposits-Mixed Forest – mainly Deciduous	41,212	12	4,945	1,300	6	<1	<1	-
Till-Dense Coniferous Forest	39,542	12	4,745	1,284	194	4	15	X
Glaciofluvial outwash deposits-Mixed Forest – mainly Coniferous	35,939	12	4,313	1,459	114	3	8	X
Till-Mixed Forest – mainly Coniferous	33,471	12	4,016	1,344	91	2	7	X
Glaciofluvial outwash deposits-Dense Deciduous Forest	32,299	12	3,876	1,718	14	<1	1	X
Till-Dense Deciduous Forest	25,245	12	3,029	1,150	37	1	3	X
Glaciofluvial outwash deposits-Treed Bog	24,498	12	2,940	409	2	<1	<1	-
Glaciolacustrine deposits-Dense Deciduous Forest	23,384	12	2,806	579	60	2	10	X
Glaciofluvial outwash deposits-Sparse Coniferous Forest	20,134	12	2,416	479	7	<1	1	X
Glaciofluvial ice-contact deposits-Dense Deciduous Forest	19,420	12	2,331	1,138	11	<1	1	-
Bedrock-Sparse Deciduous Forest	17,818	12	2,138	501	122	6	24	X
Organic deposits-Dense Coniferous Forest	17,727	12	2,128	849	10	<1	1	X
Glaciolacustrine deposits-Dense Coniferous Forest	16,844	12	2,022	722	57	3	8	X
Glaciofluvial ice-contact deposits-Dense Coniferous Forest	16,017	12	1,923	919	143	7	16	-
Glaciofluvial ice-contact deposits-Mixed Forest – mainly Deciduous	15,197	12	1,825	1,117	16	1	1	-
Glaciolacustrine deposits-Mixed Forest – mainly Deciduous	15,169	12	1,822	319	18	1	6	X
Till-Sparse Coniferous Forest	14,991	12	1,800	499	8	<1	2	X

	Ecodistrict 3W2					Upper English River			
Glaciolacustrine deposits-Mixed Forest – mainly Coniferous	14,822	12	1,780	507	58	3	11	X	
Glaciofluvial ice-contact deposits-Mixed Forest – mainly Coniferous	14,655	12	1,760	537	56	3	10	-	
Organic deposits-Treed Bog	12,211	12	1,472	1,212	<1	<1	<1	-	
Till-Treed Bog	9,787	12	1,197	178	4	<1	2	-	
Organic deposits-Mixed Forest – mainly Coniferous	9,769	12	1,195	339	1	<1	<1	X	
Fluvial deposits-Dense Coniferous Forest	8,043	13	1,018	181	39	4	21	X	
Organic deposits-Sparse Coniferous Forest	7,157	13	939	238	2	<1	1	X	
Glaciolacustrine deposits-Sparse Coniferous Forest	5,900	14	851	137	3	<1	2	X	
Glaciofluvial ice-contact deposits-Sparse Coniferous Forest	5,594	15	835	272	12	1	4	-	
Fluvial deposits-Mixed Forest – mainly Deciduous	5,576	15	834	274	3	<1	1	X	
Glaciolacustrine deposits-Treed Bog	5,432	15	827	76	5	1	7	-	
Glaciofluvial outwash deposits-Sparse Deciduous Forest	4,828	17	804	59	1	<1	1	X	
Till-Sparse Deciduous Forest	3,348	23	785	54	<1	<1	1	X	
Fluvial deposits-Mixed Forest – mainly Coniferous	3,311	24	785	79	7	1	9	X	
Fluvial deposits-Dense Deciduous Forest	2,811	28	784	160	6	1	4	X	
Fluvial deposits-Sparse Coniferous Forest	2,361	33	777	79	29	4	36	X	
Glaciolacustrine deposits-Sparse Deciduous Forest	2,263	34	774	24	16	2	67	X	
Glaciofluvial ice-contact deposits-Sparse Deciduous Forest	1,467	48	704	20	14	2	71	-	
Fluvial deposits-Sparse Deciduous Forest	303	85	258	21	18	7	85	X	

\* The LV matrix was recently refined by Ontario Parks in several ways: 1) revised Ecodistrict boundaries; 2) increased resolution of Landcover28 data (25 m vs. 100 m); 3) terrain is no longer used as a modifier; 4) more accurate surficial geology data; and 5) updated approach to representation targets.

\*\* “X” observed in field; “-” not observed in field

**Table 5. Original version of landform – vegetation (LV) type representation for Upper English River Conservation Reserve used in Ontario Living Legacy gap analysis.**

Site District	Landform	Surface Expression	Burn	Conifer	Conifer Mixed	Deciduous	Deciduous Mixed	Open Wetland	Sparse Forest	Grand Total
3W-2	End Moraine	Moderately Broken		109	65		53	2	12	241
		Weakly Broken	8	307	96	28	138		32	609
	<b>End Moraine Total</b>		<b>8</b>	<b>416</b>	<b>161</b>	<b>28</b>	<b>191</b>	<b>2</b>	<b>44</b>	<b>850</b>
	Esker		7	64	44	14	44	13	55	241
	Ground Moraine	Moderately Broken	40	138	35	13	78	9	240	553
		Weakly Broken	49	680	170	51	269	34	769	2,022
	<b>Ground Moraine Total</b>		<b>89</b>	<b>818</b>	<b>205</b>	<b>64</b>	<b>347</b>	<b>43</b>	<b>1,009</b>	<b>2,575</b>
	Lacustrine Deposit		9	99			9		84	201
	Outwash Deposit	Moderately Broken	9	31	10	4	23	1	82	160
		Weakly Broken	2	59	9	31	32		12	145
<b>Outwash Deposit Total</b>		<b>11</b>	<b>90</b>	<b>19</b>	<b>35</b>	<b>55</b>	<b>1</b>	<b>94</b>	<b>305</b>	
<b>Grand Total</b>			<b>124</b>	<b>1,487</b>	<b>429</b>	<b>141</b>	<b>646</b>	<b>59</b>	<b>1,286</b>	<b>4,172</b>

**Table 6. Site type matrix for Upper English River Conservation Reserve.**

		Arid	Very Dry	Dry	Dry Mesic	Mesic	Wet Mesic	Wet	Very Wet	Saturated	Open Water
<b>Colder</b>	Rock		ES12								
	Sand			ES13, ES14							
	Loam										
	Clay									ES44 ES46	
	Organic										
<b>Normal</b>	Rock		ES12								
	Sand			ES13, ES14, ES16							ES48
	Loam				ES20						
	Clay				ES29					ES44 ES46	
	Organic										ES47
<b>Warmer</b>	Rock		ES12								
	Sand										
	Loam				ES24						
	Clay				ES29	ES29 ES17	ES38			ES44 ES46	
	Organic										

## Upper English River Species Lists

### **Plant List**

The following plants were observed in Upper English River Conservation Reserve in 2002. Taxonomic order and species names generally follow Morton and Venn (1990). Introduced species are marked "I". Voucher specimens were collected for species marked "\*\*".

#### **FAMILY EQUISETACEAE**

*Equisetum fluviatile* L.  
*Equisetum pratense* Ehrh.  
*Equisetum sylvaticum* L.  
*Equisetum variegatum* Schleicher

#### **FAMILY DENNSTAETIACEAE**

*Pteridium aquilinum* (L.) Kuhn

#### **FAMILY DRYOPTERIDACEAE**

*Gymnocarpium dryopteris* (L.) Newman  
*Onoclea sensibilis* L.

#### **FAMILY OSMUNDACEAE**

*Osmunda regalis* L.

#### **FAMILY POLYPODIACEAE**

*Polypodium virginianum* L.

#### **FAMILY THELYPTERIDACEAE**

*Thelypteris palustris* (Salisb.) Schott

#### **FAMILY ISOETACEAE**

*Isoetes echinospora* Durieu

#### **FAMILY LYCOPODIACEAE**

\* *Lycopodium inundatum* L.  
*Lycopodium obscurum* L.

#### **FAMILY CUPRESSACEAE**

*Thuja occidentalis* L.

#### **FAMILY PINACEAE**

*Abies balsamea* (L.) Miller  
*Pinus banksiana* Lambert  
*Pinus resinosa* Sol. ex Aiton  
*Pinus strobus* L.

#### **FAMILY TAXACEAE**

*Taxus canadensis* Marshall

#### **FAMILY ALISMATACEAE**

*Sagittaria latifolia* Willd.

#### **Horsetail Family**

Water Horsetail  
Shade Horsetail  
Woodland Horsetail  
Variegated Horsetail

#### **Bracken Family**

Bracken

#### **True Fern Family**

Oak Fern  
Sensitive Fern

#### **Flowering Fern**

Royal Fern

#### **Polypody Family**

Rock Polypody

#### **Marsh Fern Family**

Marsh Fern

#### **Quillwort Family**

Braun's Quillwort

#### **Clubmoss Family**

Bog Clubmoss  
Flat-branched Tree Clubmoss

#### **Juniper Family**

Eastern White Cedar

#### **Pine Family**

Balsam Fir  
Jack Pine  
Red Pine  
White Pine

#### **Yew Family**

Canada Yew

#### **Water Plantain Family**

Broad-leaf Arrowhead

## **FAMILY CYPERACEAE**

- \* *Carex lenticularis* Michaux
- \* *Carex viridula* Michaux
- Eleocharis acicularis* (L.) Roemer & Schultes
- Eleocharis smallii* Britton
- Scirpus acutus* Muhlenb. ex Bigelow
- Scirpus cyperinus* (L.) Kunth

## **FAMILY ERIOCAULACEAE**

- \* *Eriocaulon aquaticum* (Hill) Druce

## **FAMILY HYDROCHARITACEAE**

- Elodea canadensis* Rich. ex. Michaux
- Vallisneria americana* Michaux

## **FAMILY IRIDACEAE**

- Iris versicolor* L.

## **FAMILY JUNCACEAE**

- Juncus effusus* L.
- Juncus pelocarpus* E. Meyer
- Juncus tenuis* Willd.

## **FAMILY LILIACEAE**

- Clintonia borealis* (Aiton) Raf.

## **FAMILY NAJADACEAE**

- Najas flexilis* (Willd.) Rostkov & W.Schmidt

## **FAMILY POACEAE**

- I *Agrostis gigantea* Roth
- Agrostis scabra* Willd.
- Calamagrostis canadensis* (Michaux) P.Beauv.
- Cinna latifolia* (Trevir. ex Goepfinger) Griseb. in Ledeb.
- Danthonia spicata* (L.) P.Beauv. ex Roemer & Schultes
- Glyceria borealis* (Nash) Batch.
- \* *Sphenopholis intermedia* (Rydb.) Rydb.
- Zizania palustris* L.

## **FAMILY POTAMOGETONACEAE**

- Potamogeton epihydrus* Raf.
- Potamogeton gramineus* L.
- Potamogeton natans* L.
- Potamogeton richardsonii* (A. Bennett) Rydb.
- Potamogeton spirillus* Tuckerman

## **FAMILY SPARGANIACEAE**

- Sparganium emersum* Rehmman
- Sparganium eurycarpum* Engelm. ex A. Gray

## **Sedge Family**

- Lenticular Sedge
- Greenish Sedge
- Needle Spikerush
- Marsh Spikerush
- Hardstem Bulrush
- Black-sheathed Bulrush

## **Pipewort Family**

- Northern Pipewort

## **Frog's-bit Family**

- Canada Waterweed
- Tapegrass

## **Iris Family**

- Wild Iris

## **Rush Family**

- Soft Rush
- Mud Rush
- Slender, Path Rush

## **Lily Family**

- Blue Bead Lily

## **Naiad Family**

- Slender Naiad

## **Grass Family**

- Redtop
- Ticklegrass
- Bluejoint Grass
- Drooping Woodreed
- Poverty Grass
- Northern Manna Grass
- Slender Wedgegrass
- Wild Rice

## **Pondweed Family**

- Ribbon-leaf Pondweed
- Variable-leaved Pondweed
- Floating-leaved Pondweed
- Richardson's Pondweed
- Snail's-seed Pondweed

## **Bur-reed Family**

- Common Bur-reed
- Large-fruited Bur-reed

*Sparganium fluctuans (Morong) Robinson*

**FAMILY TYPHACEAE**

*Typha latifolia L.*

**FAMILY ACERACEAE**

*Acer spicatum Lam.*

**FAMILY APIACEAE**

*Sium suave Walter*

**FAMILY APOCYNACEAE**

*Apocynum androsaemifolium L.*

**FAMILY ARALIACEAE**

*Aralia nudicaulis L.*

**FAMILY ASTERACEAE**

*Achillea millefolium L.*

*Anaphalis margaritacea (L.) Benth. & Hook. f.ex C.B. Clarke*

*Aster longifolius Lam.*

*Bidens cernua L.*

l *Chrysanthemum leucanthemum L.*

*Eupatorium maculatum L.*

*Euthamia graminifolia (L.) Nutt.*

*Megalodonta beckii (Torrey ex Spreng) E.Greene*

*Petasites frigidus (L.) Fries*

**FAMILY BALSAMINACEAE**

*Impatiens capensis Meerb.*

**FAMILY BETULACEAE**

*Alnus viridis (Chaix) DC.*

*Betula papyrifera Marshall*

*Corylus cornuta Marshall*

**FAMILY CAPRIFOLIACEAE**

*Linnaea borealis L.*

*Viburnum trilobum Marshall*

**FAMILY CARYOPHYLLACEAE**

l \* *Spergularia rubra (L.) J.S.&C.Presl*

**FAMILY CORNACEAE**

*Cornus canadensis L.*

*Cornus stolonifera Michaux*

**FAMILY ERICACEAE**

*Vaccinium myrtilloides Michaux*

**FAMILY GUTTIFERAE**

\* *Hypericum majus (A.Gray) Britton*

Floating Bur-reed

**Cattail Family**

Common Cattail

**Maple Family**

Mountain Maple

**Parsley Family**

Water Parsnip

**Dogbane Family**

Spreading Dog Bane

**Ginseng Family**

Wild Sarsaparilla

**Sunflower Family**

Common Yarrow

Pearly Everlasting

Long-leaved Aster

Nodding Beggarticks

Ox-eye Daisy

Joe Pye Weed

Grass-leaved Goldenrod

Water Marigold

Sweet Coltsfoot

**Touch-me-not Family**

Jewel Weed

**Birch Family**

Green Alder

White Birch

Beaked Hazelnut

**Honeysuckle Family**

Twinflower

High-bush Cranberry

**Pink Family**

Sand Spurrey

**Dogwood Family**

Bunchberry

Red Osier Dogwood

**Heath Family**

Velvet-leaved Blueberry

**St. John's-wort**

Larger St. Johnswort

**FAMILY LAMIACEAE**

*Lycopus uniflorus* Michaux

- | *Stachys palustris* L.

**FAMILY MOLLUGINACEAE**

- | \* *Mollugo verticillata* L.

**FAMILY MYRICACEAE**

*Myrica gale* L.

**FAMILY NYMPHAEACEAE**

*Nuphar variegata* Durand in Clinton

**FAMILY OLEACEAE**

*Fraxinus nigra* Marshall

**FAMILY ONAGRACEAE**

*Oenothera biennis* L.

**FAMILY PLANTAGINACEAE**

- | *Plantago major* L.

**FAMILY POLYGONACEAE**

*Polygonum amphibium* L.

- \* *Rumex orbiculatus* A. Gray

**FAMILY PRIMULACEAE**

*Lysimachia thyrsiflora* L.

*Trientalis borealis* Raf.

**FAMILY PYROLACEAE**

*Orthilia secunda* (L.) House

*Pyrola asarifolia* Michaux

**FAMILY RANUNCULACEAE**

*Coptis trifolia* (L.) Salisb.

*Ranunculus longirostris* Godron

- \* *Ranunculus pensylvanicus* L.f.

*Ranunculus reptans* L.

**FAMILY RHAMNACEAE**

*Rhamnus alnifolia* L'Her.

**FAMILY ROSACEAE**

*Fragaria virginiana* Miller

*Potentilla norvegica* L.

*Prunus pensylvanica* L.f.

*Rosa acicularis* Lindley

*Rosa blanda* Aiton

*Rubus idaeus* L.

*Sorbus decora* (Sarg.) C.Schneider

*Spiraea alba* Duroi

**Mint Family**

Northern Bugleweed

Woundwort

**Carpetweed Family**

Carpetweed

**Bayberry Family**

Sweet Gale

**Water-lily Family**

Yellow Pond Lily

**Olive Family**

Black Ash

**Evening-primrose**

Common Evening Primrose

**Plantain Family**

Common Plantain

**Buckwheat Family**

Water Smartweed

Great Water Dock

**Primrose Family**

Tufted Loosestrife

Starflower

**Wintergreen Family**

One-sided Wintergreen

Pink Wintergreen

**Buttercup Family**

Three-leaved Gold Thread

Curly White Water Crowfoot

Bristly Buttercup

Creeping Spearwort

**Buckthorn Family**

Alder-leaved Buckthorn

**Rose Family**

Wild Strawberry

Rough Cinquefoil

Pincherry

Prickly Wild Rose

Smooth Wild Rose

Common Raspberry

Showy Mountain Ash

Narrow-leaved Meadow Sweet

**FAMILY SALICACEAE**

*Salix lucida* Muhlenb.

**Willow Family**

Shining Willow

**FAMILY SAXIFRAGACEAE**

*Mitella nuda* L.

**Saxifrage Family**

Naked Mitrewort

## Upper English River Animal Species List

The following animals were observed in Upper English River Conservation Reserve in 2002. Taxonomic order and nomenclature follow AOU (1998) for birds and Banfield (1974) for mammals. Fish species were reported from lakes in Upper English River Conservation Reserve in OMNR lake surveys.

### BIRDS

#### Bitterns and Herons

Great Blue Heron

#### FAMILY ARDEIDAE

*Ardea herodias*

#### Ducks, Geese and Swans

Mallard

#### FAMILY ANATIDAE

*Anas platyrhynchos*

#### Gulls and Terns

Herring Gull

#### FAMILY LARIDAE

*Larus argentatus*

#### Jays, Crows and Ravens

Blue Jay

American Crow

Common Raven

#### FAMILY CORVIDAE

*Cyanocitta cristata*

*Corvus brachyrhynchos*

*Corvus corax*

### AMPHIBIANS

#### Toads

Eastern American Toad

#### FAMILY BUFONIDAE

*Bufo americanus americanus*

#### True Frogs

Leopard Frog

Wood Frog

#### FAMILY RANIDAE

*Rana pipiens*

*Rana sylvatica*

### REPTILES

#### Colubrids

Eastern Garter Snake

#### FAMILY COLUBRIDAE

*Thamnophis sirtalis*

### MAMMALS

The following mammals species were observed in fieldwork or reported from traplines overlapping Upper English River Conservation Reserve.

#### Squirrels

Red Squirrel

#### FAMILY SCIURIDAE

*Tamiasciurus hudsonicus*

#### Beavers

Beaver

#### FAMILY CASTORIDAE

*Castor canadensis*

#### Rats, Mice, and Voles

Muskrat

#### FAMILY MURIDAE

*Ondatra zibethicus*

#### Dogs

Coyote

Timber Wolf

#### FAMILY CANIDAE

*Canis latrans*

*Canis lupus*

**Bears**

Black Bear

**FAMILY URSIDAE***Ursus americanus***Weasels and Their Allies**River Otter  
Marten  
Fisher  
Striped Skunk  
Ermine  
Mink**FAMILY MUSTELIDAE***Lutra canadensis*  
*Martes americana*  
*Martes pennanti*  
*Mephitis mephitis*  
*Mustela erminea*  
*Mustela vison***Cats**

Lynx

**FAMILY FELIDAE***Lynx canadensis***Deer**Moose  
Woodland Caribou**FAMILY CERVIDAE***Alces alces*  
*Rangifer tarandus***FISH****Salmon Family**Lake Whitefish  
Cisco**FAMILY SALMONIDAE***Coregonus clupeaformis*  
*Coregonus artedii***Pike Family**

Northern Pike

**FAMILY ESOCIDAE***Esox lucius***Minnow Family**Lake Chub  
Emerald Shiner  
Blacknose Shiner  
Spottail Shiner  
Mimic Shiner**FAMILY CYPRINIDAE***Couesius plumbeus*  
*Notropis atherinoides*  
*Notropis heterolepis*  
*Notropis hudsonius*  
*Notropis volucellus***Sucker Family**White Sucker  
Shorthead Redhorse**FAMILY CATOSTOMIDAE***Catostomus commersoni*  
*Moxostoma macrolepidotum***Cod Family**

Burbot

**FAMILY GADIDAE***Lota lota***Stickleback Family**

Ninespine Stickleback

**FAMILY GASTEROSTEIDAE***Pungitius pungitius***Trout-perch**

Trout-perch

**FAMILY PERCOPSIDAE***Percopsis omiscomaycus***Sunfish Family****FAMILY CENTRARCHIDAE**

Rock Bass  
Smallmouth Bass

*Ambloplites rupestris*  
*Micropterus dolomieu*

**Perch Family**

Yellow Perch  
Sauger  
Walleye  
Logperch

**FAMILY PERCIDAE**

*Perca flavescens*  
*Stizostedion canadense*  
*Stizostedion vitreum*  
*Percina caprodes*

## **Appendix D:**

# **Recreation Inventory Checksheet**

# RECREATION INVENTORY CHECKLIST

NAME	<input type="text" value="Upper English River Conservation Reserve - C2327"/>		
MAP NAME	<input type="text" value="see following page"/>	NTS Number	<input type="text" value="see following pag"/>
		UTM reference	<input type="text" value="1563200549110"/>

OBM Number	LATITUDE	LONGITUDE	AREA (ha)	OWNERSHIP
<input type="text" value="see following page"/>	<input type="text" value="49' 41 N"/>	<input type="text" value="91' 04 W"/>	<input type="text" value="11,377.00"/>	<input type="text" value="Crown"/>

MNR REGION	MNR DISTRICT	PARK ZONE	COUNTY	TOWNSHIP
<input type="text" value="Northwest"/>	<input type="text" value="Dryden"/>	<input type="text" value="Northwest"/>	<input type="text" value="N/A"/>	<input type="text" value="unorganized"/>

RECREATION FEATURES	RECREATION ACTIVITIES
1. <input type="text" value="M00 - Waterbodies, General"/>	1. <input type="text" value="F00 - Fishing, General"/>
2. <input type="text" value="A01 - Sport Fish"/>	2. <input type="text" value="K00 - Camping, General"/>
3. <input type="text" value="T06 - Existing Canoe Route"/>	3. <input type="text" value="H00 - Hunting, General"/>
4. <input type="text" value="H04 - Traditional Use Route or Trail"/>	4. <input type="text" value="B02 - Canoeing"/>
5. <input type="text" value="D02 - Rapids and Shutes"/>	5. <input type="text" value="T13 - Portage"/>
6. <input type="text" value="W00 - Wildlife, General"/>	6. <input type="text" value="G02 - Berry Picking"/>
7. <input type="text" value="B17 - Sand Beach"/>	7. <input type="text" value="n00 - Nature Activities"/>
8. <input type="text" value="E00 - Vegetation Features, General"/>	8. <input type="text" value="Q00 - Viewing, General"/>

RECREATION FACTORS	FEATURES	Rating:
		Very High   High   Moderate   Low   N/A

Most Scarce Feature:	<input type="text" value="N/A"/>	
Feature Scarcity:		<input type="text" value="N/A"/>
Most Unique Feature:	<input type="text" value="4"/>	
Activity Attraction Capability:		<input type="text" value="High"/>
Scenic Attractiveness:		<input type="text" value="Moderate"/>
Geographic Significance:		<input type="text" value="Moderate"/>
<b>Feature Significance:</b>		<b>Moderate</b>
Most Sensitive Feature To Recreation Use:	<input type="text" value="4"/>	
<b>Feature Sensitivity To Recreation Use:</b>		<b>Low</b>
Most Sensitive Feature To Resource Development:	<input type="text" value="N/A"/>	
<b>Feature Sensitivity To Resource Development</b>		<b>N/A</b>
<b>Cultural/Historic and Archaeological Features:</b>		<b>B</b>

Comments	<input type="text" value="Field visits occurred on August 8, 9, 27 - 29."/>
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DATE COMPILED	COMPILER
<input type="text" value="ay, August 30, 2002"/>	<input type="text" value="Alicia Morin"/>

Source: Recreation Resource Inventory Standards and Procedures DRAFT REPORT, Gov. of British Columbia, Ministry of Forests Range, Recreation and Forests Practices Branch, March 1995.

# **Appendix E:**

## **Permitted Uses Table**

## Summary of Generic Permitted Uses in Conservation Reserves within the Planning Area

Use	Existing Conservation Reserves	New Conservation Reserves in the Planning Area
Commercial timber harvest, commercial hydro development	Not permitted.	Not permitted.
Mineral exploration and mining	Not permitted.	There will be no new exploration permitted.
Bait fishing, commercial fishing, commercial fur harvesting, wild rice harvesting	Existing use permitted to continue, unless there are significant demonstrated conflicts. New operations can be considered, subject to the “test of compatibility”.	Existing use permitted to continue unless there are significant demonstrated conflicts. New operations can be considered, subject to the “test of compatibility”.
Sport hunting	Permitted.	Permitted.
Sport fishing	Permitted, except in specific fish sanctuaries.	Permitted, except in specific fish sanctuaries.
Seasonal recreation camps (“hunt camps”)	Existing camps permitted to continue, and may be eligible for enhanced tenure, but not purchase of land (see 6.1.8).	Existing authorized camps permitted to continue, and may be eligible for enhanced tenure but not purchase of land (see 6.1.8).
Commercial Bear Hunting	Existing use permitted to continue. New operations not permitted.	Existing use permitted to continue. New operations not permitted.
Tourism facilities (for resource-based tourism) and recreational trails	Existing authorized facilities and trails can continue, unless there are significant demonstrated conflicts. No new tourism facilities permitted. New trails can be considered as part of planning for an individual reserve.	Existing authorized facilities and trails (motorized and non-motorized) can continue, unless there are significant demonstrated conflicts. Tourism facilities can apply to upgrade tenure from LUP to lease. New tourism and trail facilities can be considered as part of planning for an individual reserve.
Land Disposition	Sale of lands is not permitted. Renewals of existing leases or land use permits are permitted; requests for transfer of tenure will be considered in the context of the Statement of Conservation Interest or Resource Management Plan. New leases or land use permits permitted for approved activities.	Sale of lands is not permitted. Renewals of existing leases or land use permits are permitted; requests for transfer of tenure will be considered in the context of the Statement of Conservation Interest or Resource Management Plan. New leases or land use permits permitted for approved activities.
Roads	Existing roads can continue to be used, but new roads for resource extraction will not be permitted.	Existing roads can continue to be used, but new roads for resource extraction will not be permitted, with the exception of necessary access for mineral exploration and development.