



# Ramsar Information Sheet

Published on 18 January 2021

Update version, previously published on : 1 January 2005

## Finland River Luiro Mires



Designation date	2 February 2004
Site number	1529
Coordinates	67°16'45"N 27°33'43"E
Area	12 345,00 ha

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

### Summary

River LUIRO mires are among the most outstanding mire areas in Finland. The site consists of several aapa mire and raised bogs areas like Lämsänaapa, Hirviäapa, Kairanaapa, Sakkala-aapa, Sudenvaaranaapa and Sokanaapa, which are divided by River LUIRO and other small riversstreams. The mire types are extremely diverse and the site includes the most extensive unbroken rich birch fen area in Finland. Lämsänaapa and Sakkala-aapa raised bogs are the largest raised bogs in northern Finland. An important breeding and staging area for waterfowl and waders. There are also several threatened plant and moss species.

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

##### Responsible compiler

Institution/agency	Metsähallitus, Parks and Wildlife Finland
Postal address	PO Box 94 FI-01301 Vantaa Finland

##### National Ramsar Administrative Authority

Institution/agency	Finnish Environment Institute (SYKE), Natural Environment Centre
Postal address	PO Box 140 FI-00251

#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year	2002
To year	2017

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	River Luiro Mires
Unofficial name (optional)	Luiron suot

#### 2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary	Yes <input type="radio"/> No <input checked="" type="radio"/>
(Update) B. Changes to Site area	No change to area
(Update) For secretariat only: This update is an extension	<input type="checkbox"/>

#### 2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	No
(Update) Optional text box to provide further information	Wetland types and species, and ecosystem services have been reassessed according to current knowledge, but there are no changes to the ecological character.

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<2 file(s) uploaded>

Former maps	0
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#### Boundaries description

The site follows the Luiron suot Natura 2000 boundaries (SiteCode: FI1300904).
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### 2.2.2 - General location

a) In which large administrative region does the site lie?	Lapland
b) What is the nearest town or population centre?	Pelkosenniemi / Savukoski

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?	Yes <input type="radio"/> No <input checked="" type="radio"/>
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b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

#### 2.2.4 - Area of the Site

Official area, in hectares (ha):

Area, in hectares (ha) as calculated from GIS boundaries

#### 2.2.5 - Biogeography

##### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Boreal region
Other scheme (provide name below)	Northern boreal forest vegetation zone

### 3 - Why is the Site important?

#### 3.1 - Ramsar Criteria and their justification

- Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided	Virgin aapa mires play an important role in maintenance of water quality and in flood control.
Other ecosystem services provided	As an active and mostly pristine peat bog, the site is very valuable for carbon storage and flood control. The site also harbours biodiversity and serves as a source of inspiration and recreation.
Other reasons	A representative example of natural wetland types (dominated by peatlands) in the EU Boreal region, including 4 priority natural wetland habitat types of the Annex I of the EU Habitats Directive (aapa mires, bog woodland, active raised bogs, Fennoscandian deciduous swamp woods).

- Criterion 2 : Rare species and threatened ecological communities

#### 3.2 - Plant species whose presence relates to the international importance of the site

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<b>Plantae</b>								
BRYOPHYTA/ BRYOPSIDA	<i>Hamatocaulis lapponicus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National Red List - EN	
BRYOPHYTA/ BRYOPSIDA	<i>Hamatocaulis vernicosus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National Red List - VU	
BRYOPHYTA/ BRYOPSIDA	<i>Meesia longiseta</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National Red List - EN	
TRACHEOPHYTA/ MAGNOLIOPSIDA	<i>Ranunculus lapponicus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EU Habitats Directive - Annexes II, IV	
TRACHEOPHYTA/ MAGNOLIOPSIDA	<i>Saxifraga hirculus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>	National Red List - VU	

#### 3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
<b>Others</b>																	
CHORDATA/ MAMMALIA	<i>Lutra lutra</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EU Habitats Directive - Annexes II, IV	
<b>Birds</b>																	
CHORDATA/ AVES	<i>Anas acuta</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - EN	
CHORDATA/ AVES	<i>Anas querquedula</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - EN	
CHORDATA/ AVES	<i>Anser fabalis</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - VU	
CHORDATA/ AVES	<i>Asio flammeus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Aythya fuligula</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - EN	
CHORDATA/ AVES	<i>Circus cyaneus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - VU; EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Cygnus cygnus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Emberiza rustica</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>		
CHORDATA/ AVES	<i>Grus grus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Lyrurus tetrix</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Mergellus albellus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Phalaropus lobatus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - VU; EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Philomachus pugnax</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National Red List - CR; EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Picoides tridactylus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Sterna paradisaea</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Tetrao urogallus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	
CHORDATA/ AVES	<i>Tringa glareola</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EU Birds Directive - Annex I	

1) Percentage of the total biogeographic population at the site

### 3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Fennoscandian natural rivers	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Water courses of plain to montane levels with Ranuncion fluitantis and Callitricho-Batrachion vegetation	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Natural dystrophic lakes and ponds	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Aapa mires	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Active raised bogs	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Alkaline fens	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Transition mires and quaking bogs	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Bog woodland	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Fennoscandian deciduous swamp woods	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Fennoscandian springs and springfens	<input checked="" type="checkbox"/>		Habitats Directive - Annex I
Petrifying springs with tufa formation (Cratoneurion)	<input checked="" type="checkbox"/>		Habitats Directive - Annex I

## 4 - What is the Site like? (Ecological character description)

### 4.1 - Ecological character

The site represents the Mire vegetation region of Main aapa mires of middle and northern types. The area includes ca. 11 000 ha of mires and ca. 120 ha of water. The area is situated on both sides of River Luiro, which is characterized by extensive alluvial meadows and alluvial grove forests. Several brooks and small rivers traverse the mires together with small esker formations, and interchanging open-water flarks are typical of the area. Birch fens are typical of Sakkala-aapa, while Lämsänaapa is an eccentric bog and Kairanaapa is a barren aapa mire. There are plenty of rich Pine (*Pinus sylvestris*) and Spruce (*Picea abies*) bogs, and on the riverbanks also grass- and hay-rich Spruce fens. Forests consist mainly of mesic heath forests.

### 4.2 - What wetland type(s) are in the site?

#### Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> M: Permanent rivers/ streams/ creeks		3	21	Representative
Fresh water > Lakes and pools >> O: Permanent freshwater lakes		3	23	Representative
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		1	9218	Representative
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		2	2111	Representative
Fresh water > Flowing water >> Y: Permanent Freshwater springs; oases		4	1	Rare

#### Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Western Taiga	500

### 4.3 - Biological components

#### 4.3.1 - Plant species

<no data available>

#### 4.3.2 - Animal species

<no data available>

### 4.4 - Physical components

#### 4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude climate with cold winters	Dfc: Subarctic (Severe winter, no dry season, cool summer)

#### 4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

Entire river basin

Upper part of river basin

Middle part of river basin



- Lower part of river basin
- More than one river basin
- Not in river basin
- Coastal

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

River basin of Kemijoki draining into the Baltic Sea

4.4.3 - Soil

Organic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes  No

Please provide further information on the soil (optional)

Mainly peat with small areas of fluvial and glacial ground moraine.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from precipitation	<input type="checkbox"/>	No change
Water inputs from surface water	<input checked="" type="checkbox"/>	No change
Water inputs from groundwater	<input type="checkbox"/>	No change

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology.

Aapa mires dependent on ground or surface waters and raised bogs on rain water.  
 Depth of water: Shallow in ponds. Water-level high in spring because of melting snow.

4.4.5 - Sediment regime

Sediment regime unknown

4.4.6 - Water pH

Unknown

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Mesotrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Dystrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

Please provide further information on dissolved or suspended nutrients (optional):

General water quality good in River Luiro. Mesotrophic in rivers. Ponds and mire waters dystrophic.

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the site itself. i) broadly similar  ii) significantly different

- Surrounding area has greater urbanisation or development
- Surrounding area has higher human population density
- Surrounding area has more intensive agricultural use
- Surrounding area has significantly different land cover or habitat types

Please describe other ways in which the surrounding area is different:

The surrounding areas are affected heavily by commercial forest management and drainage.

## 4.5 - Ecosystem services

### 4.5.1 - Ecosystem services/benefits

#### Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Low
Wetland non-food products	Livestock fodder	Medium

#### Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Climate regulation	Regulation of greenhouse gases, temperature, precipitation and other climatic processes	Medium
Hazard reduction	Flood control, flood storage	Medium

#### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Low
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Low
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	Low
Scientific and educational	Major scientific study site	Low

#### Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	High
Soil formation	Accumulation of organic matter	Medium
Nutrient cycling	Carbon storage/sequestration	Medium

Other ecosystem service(s) not included above:

Significant values include reindeer husbandry.

Within the site:

Outside the site:

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

### 4.5.2 - Social and cultural values

- i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
- iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples

iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

#### 4.6 - Ecological processes

<no data available>

## 5 - How is the Site managed? (Conservation and management)

### 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

##### Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

##### Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Provide further information on the land tenure / ownership regime (optional):

(a) within the Ramsar site:  
State-owned for the major part (90 %). The rest is private-owned.

(b) in the surrounding area: State-owned and private-owned

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Metsähallitus Parks and Wildlife Finland

Provide the name and/or title of the person or people with responsibility for the wetland:

Ms. Elisa Pääkkö, Specialist

Postal address:

Jäämerentie 6  
99600 Sodankylä  
Finland

E-mail address:

elisa.paakko@metsa.fi

## 5.2 - Ecological character threats and responses (Management)

### 5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

#### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

#### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Hunting and collecting terrestrial animals			<input checked="" type="checkbox"/>		<input type="checkbox"/>	

Please describe any other threats (optional):

Some drainage has been carried out on the margins of the mires. Hunting may have negative effects on the site.

#### 5.2.2 - Legal conservation status

##### Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Luiron suot SAC/SPA	<a href="http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=FI13009_04">http://natura2000.eea.europa.eu/Natura2000/SDF.aspx?site=FI13009_04</a>	whole

##### National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Mire Conservation Programme	Lämsänaavan-Keikkunaavan alue		partly
Mire Protection Area	Lämsänaapa-Sakkalanaavan Mire Protection area		partly

##### Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Lämsänaapa-Sakkala-aapa	<a href="http://datazone.birdlife.org/site/factsheet/1%C3%A4ms%C3%A4naapa-sakkala-aapa-iba-finland">http://datazone.birdlife.org/site/factsheet/1%C3%A4ms%C3%A4naapa-sakkala-aapa-iba-finland</a>	whole

## 5.2.3 - IUCN protected areas categories (2008)

- Ia Strict Nature Reserve
- Ib Wilderness Area: protected area managed mainly for wilderness protection
- II National Park: protected area managed mainly for ecosystem protection and recreation
- III Natural Monument: protected area managed mainly for conservation of specific natural features
- IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
- V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
- VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

## 5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Other:

The site is included in the Natura 2000 Network, designated both as SPA and SCI, and partly in the Mire Conservation Programme. Lämsänaapa-Sakkala-aapa Mire Protection Area (4 589 ha) was established in 1988. Forestry, ditching, extraction of earth material and damaging of soil or bedrock are prohibited in the Mire Protection Area. Also construction of new buildings is prohibited in general.

## 5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes  No If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes  No 

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

Only few visitors. No facilities. A snowmobile trail crosses the area.

## 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No, the site has already been restored

Further information

Mire area was restored in Sakkala-aapa near Verkko-oja in Pelkosenniemi EU LIFE-project in 2008.

## 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented

The breeding bird fauna and flora were studied in the 1970s. The volume of bird populations was estimated in 1995 by using line transect censuses.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Hyvärinen, E., Juslén, A., Kemppainen, E., Uddström, A. & Liukko, U.-M. (eds.) 2019. The 2019 Red List of Finnish Species. Ympäristöministeriö & Suomen ympäristökeskus. Helsinki. 704 p.

Leivo, M. 2000. Suomen kansainvälisesti tärkeät lintualueet. Linnut-vuosikirja 1999. (English summary: Important Bird Areas in Finland).

Leivo, M., Asanti, T., Koskimies, P., Lammi, E., Lampolahti, J., Mikkola-Roos, M. & Virolainen, E. 2002. Suomen tärkeät lintualueet FINIBA. BirdLife Suomen julkaisuja 4, Suomen graafiset palvelut, Kuopio.

Tiainen, J., Mikkola-Roos, M., Below, A., Jukarainen, A., Lehikoinen, A., Lehtiniemi, T., Pessa, J., Rajasärkkä, A., Rintala, J., Sirkiä, P. & Valkama, J. 2016. The 2015 Red List of Finnish Bird Species. Ministry of Environment & Finnish Environment Institute, Helsinki.

Working group on the need for forest protection in southern Finland and Ostrobothnia. Chairman Ruuhijärvi, R., Secretaries Kuusinen, M., Raunio, A. and Eisto, K. 2000. Forest protection in southern Finland and Ostrobothnia. The Finnish Environment 437. Ministry of the Environment.

#### 6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<no file available>

<no data available>

#### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Aapa mires in the River Luiro mire complex. ( *Julia Paso, 15-09-2008* )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation