



# Ramsar Information Sheet

Update version, previously published on 1 January 2008

## Sweden Persöfjärden



Designation date	5 December 1974
Site number	28
Coordinates	65°46'33"N 22°05'16"E
Area	3 452,00 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

The site Persöfjärden is an approximately 15 kilometres long former bay which because of the geological uplift since the latest glacial period now has become a shallow lake surrounded by freshwater marshes and shrub marshes. The lake was lowered in 1932 to gain access to more land for agricultural use. There are extensive beds of Scirpus and Phragmites, with some Salix shrubbery in the southwest, whilst the lake's shore and some of its islands support deciduous woodland and Juniperus shrubbery. Some of the wetland areas are flooded regularly. The site holds a diversity of breeding wetland birds, and is also important for staging ducks, geese, waders and raptors. About 210 bird species have been observed in the area. The site is close to the Baltic sea and its fly ways along the shore. The lake is most important as a staging area for birds during spring and autumn, the number of breeding bird species in Persöfjärden however, is less. The vast areas of shrubland and beds of Phragmites attract numerous sedge warblers. Also, rarities like grasshopper warbler and swamp warbler have been observed.

## 2 - Data & location

### 2.1 - Formal data

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

##### Compiler 1

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##### Compiler 2

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

From year	2006
To year	2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Persöfjärden
Unofficial name (optional)	Persöfjärden (lake)

#### 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  No

(Update) B. Changes to Site area No change to area

#### 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? Not evaluated

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

Former maps 0

#### Boundaries description (optional)

The site's boundaries follow the edge of the roads with one small exemption in the north-east.

### 2.2.2 - General location

a) In which large administrative region does the site lie? Norrbotten

b) What is the nearest town or population centre?

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes  No

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
Freshwater Ecoregions of the World (FEOW)	406 Northern Baltic drainages
Udvardy's Biogeographical Provinces	3 West Eurasian Taiga
Bailey's Ecoregions	130 Subarctic Division
EU biogeographic regionalization	Boreal region
Other scheme (provide name below)	Scandinavian-Russian taiga
Other scheme (provide name below)	Boreal Zone
WWF Terrestrial Ecoregions	Scandinavian-Russian taiga

#### Other biogeographic regionalisation scheme

Nordiska ministerrådet 1977, Naturgeografisk regionindelning av Norden. NU B 1977:34: Boreal zone.

DMEER 2002 (EEA) Digital Map of European Ecological Regions): Scandinavian-Russian taiga

### 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: The site provides water purification. There is also some sediment trapping.

Other reasons: The site consists of an old bay of the Baltic that has geologically recently been formed into a lake due to the isostatic raised bed-rock. The wetland is typical for land-upheaval areas, recently cut-off from the Bothnian Bay. The site contains a representative example of near-natural fresh water lake surrounded by marshes on inorganic soils in the EU Boreal region.


- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification: The site supports a rich avian fauna because of its geographical position along a flight route, the natural water regime, the diversity of biotopes and the fact that the lake is surrounded by an open and vital agricultural landscape. The site provides shelter for waders and ducks. Lake Persöfjärden is important for the bird life. There are many bird species using the site for breeding or staging during migration. Some of these species are rare or endangered. The site is important for maintaining the species in the EU boreal region. For example there are a lot of *Anas acuta* in the Scandinavian-Russian taiga ecoregion, but in its western part (the Scandinavian peninsula) the species is rare.

- Criterion 4 : Support during critical life cycle stage or in adverse conditions



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





































Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Elatine hydropiper</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VU).	See textbox below the table.

Criterion 2 and 3: Observations can be found in [www.artportalen.se](http://www.artportalen.se).





Criterion 2: For all species, the Swedish red list status and general information for that classification etc can be found at <http://artfakta.artdatabanken.se/>.

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

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion			Pop. Size	Period of pop. Est.	% occurrence <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5								
<b>Birds</b>																
CHORDATA / AVES	<i>Alauda arvensis</i> 	Eurasian Skylark; Sky Lark	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Some years observed in suitable breeding habitat and during mating display. Permanent territory. See text box below the table.

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA / AVES	 <i>Anas acuta</i>	Northern Pintail	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Staging site and pair observed in suitable breeding habitat. See text box below the table.
CHORDATA / AVES	 <i>Anas crecca</i>	Eurasian Teal; Green-winged Teal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging site and and pair observed in suitable breeding habitat. See text box below the table.
CHORDATA / AVES	 <i>Anser fabalis</i>	Bean Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Staging site. See text box below the table.
CHORDATA / AVES	 <i>Apus apus</i>	Common Swift	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See text box below the table.
CHORDATA / AVES	 <i>Aquila chrysaetos</i>	Golden Eagle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	See text box below the table.
CHORDATA / AVES	 <i>Asio flammeus</i>	Short-eared Owl	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging site and foraging. See text box below the table.
CHORDATA / AVES	 <i>Botaurus stellaris</i>	Eurasian Bittern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Permanent territory. See text box below the table.
CHORDATA / AVES	 <i>Calcarius lapponicus</i>	Lapland Longspur	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Staging site. See text box below the table.
CHORDATA / AVES	 <i>Carpodacus erythrinus</i>	Common Rosefinch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Permanent territory. See text box below the table.
CHORDATA / AVES	 <i>Chlidonias niger</i>	Black Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU). EC Birds Directive Annex I.	Pair observed in suitable breeding habitat, possibly breeding. See text box below the table.
CHORDATA / AVES	 <i>Circus aeruginosus</i>	Western Marsh Harrier	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Permanent territory, foraging, breeding. See text box below the table.
CHORDATA / AVES	 <i>Circus cyaneus</i>	Northern Harrier	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT). EC Birds Directive Annex I.	Staging and foraging. See text box below the table.
CHORDATA / AVES	 <i>Crex crex</i>	Corn Crake	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Permanent territory, possibly breeding. See text box below the table.
CHORDATA / AVES	 <i>Cygnus cygnus</i>	Whooper Swan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging site. Pair observed in suitable breeding habitat. See text box below the table.
CHORDATA / AVES	 <i>Delichon urbicum</i>	House Martin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See text box below the table.
CHORDATA / AVES	 <i>Dendrocopos minor</i>	Lesser Spotted Woodpecker	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Permanent territory, foraging, possibly breeding some years. See text box below the table.
CHORDATA / AVES	 <i>Dryocopus martius</i>	Black Woodpecker	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT). EC Birds Directive Annex I.	Single observation. See text box below the table.
CHORDATA / AVES	 <i>Emberiza citrinella</i>	Yellowhammer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Breeding. See text box below the table.

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA / AVES	<i>Emberiza hortulana</i>	Ortolan Bunting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU). EC Birds Directive Annex I.	Staging. See text box below the table.
CHORDATA / AVES	<i>Emberiza schoeniclus</i>	Reed Bunting; Common Reed Bunting; Common Reed-Bunting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Permanent territory some years. Staging. See text box below the table.
CHORDATA / AVES	<i>Falco columbarius</i>	Merlin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See text box below the table.
CHORDATA / AVES	<i>Gavia arctica</i>	Arctic Loon; Black-throated Loon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See text box below the table.
CHORDATA / AVES	<i>Grus grus</i>	Common Crane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging, foraging and breeding site. See text box below the table.
CHORDATA / AVES	<i>Haliaeetus albicilla</i>	White-tailed Eagle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Swedish Red List 2015 (NT).	Foraging and staging site. See text box below the table.
CHORDATA / AVES	<i>Luscinia svecica</i>	Bluethroat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See text box below the table.
CHORDATA / AVES	<i>Mergellus albellus</i>	Smew	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging site. See text box below the table.
CHORDATA / AVES	<i>Numenius arquata</i>	Eurasian Curlew	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Permanent territory and staging site. See text box below the table.
CHORDATA / AVES	<i>Numenius phaeopus</i>	Whimbrel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging site. See text box below the table.
CHORDATA / AVES	<i>Pandion haliaetus</i>	Osprey, Western Osprey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Foraging. See text box below the table.
CHORDATA / AVES	<i>Philomachus pugnax</i>	Ruff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU). EC Birds Directive Annex I.	Staging site, possibly breeding some years. See text box below the table.
CHORDATA / AVES	<i>Pluvialis apricaria</i>	European Golden Plover; European Golden-Plover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging site. See text box below the table.
CHORDATA / AVES	<i>Podiceps auritus</i>	Homed Grebe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See text box below the table.
CHORDATA / AVES	<i>Remiz pendulinus</i>	Eurasian Penduline Tit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (EN).	Nest building, possibly breeding. See text box below the table.
CHORDATA / AVES	<i>Sterna hirundo</i>	Common Tern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Foraging, possibly breeding. See text box below the table.
CHORDATA / AVES	<i>Sterna paradisaea</i>	Arctic Tern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Foraging, possibly breeding. See text box below the table.
CHORDATA / AVES	<i>Strix nebulosa</i>	Great Gray Owl; Great Grey Owl	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT). EC Birds Directive Annex I.	Breeding. See text box below the table.

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA / AVES	<i>Sturnus vulgaris</i> 	European Starling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	Breeding. See text box below the table.	
CHORDATA / AVES	<i>Tringa erythropus</i> 	Spotted Redshank	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging site. See text box below the table.	

1) Percentage of the total biogeographic population at the site

Criterion 2, 3 and 4: Observations can be found in [www.artportalen.se](http://www.artportalen.se).

Criterion 2: For all species, the Swedish red list status and general information for that classification etc can be found at <http://artfakta.artdatabanken.se/>.

The beetle *Anthicus bimaculatus* is also present at the site. Criterion 3 can be applied for that species. (Swedish Red List 2015 (NT)).

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

<no data available>



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

### 4.1 - Ecological character

Persöfjärden contains a representative example of a near-natural wetland close to the coast. The site is a former bay separated from the sea due to isostatic rise. Persöfjärden most likely has a function of sediment and nutrient trapping. The surrounding of Lake Persöfjärden is a mixture of open, cultivated land, meadows, broad-leaved deciduous woodland and coniferous woodland. The shores are subject to succession due to isostatic rise. The meadows at the shoreline are mainly dominated by *Carex* spp., while *Calamagrostis* spp. and *Agrostis* spp. dominate further away from the water. With increasing distance from the shoreline, the succession ends with shrubs and trees (*Salix* spp., *Betula pubescens*, *Alnus incana*) and finally coniferous woodland (or cultivated land). The main aquatic vegetation consists of *Schoenoplectus lacustris*, *Equisetum fluviatile*, *Phragmites communis*, *Nymphaea* spp., *Sparganium* spp. and *Potamogeton* spp.

The site provides ecosystem services concerning agriculture and grazing, recreation (e.g. hunting, fishing, bird watching, canoeing) and ecological factors like biodiversity, sediment trapping etc.

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

#### Marine or coastal wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
K: Coastal freshwater lagoons		1		Representative

#### 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 > Lakes and pools >> Tp: Permanent freshwater marshes/pools		2		Representative
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		3		Representative

### 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.

The site was once part of the Bothnian Bay but is now a freshwater lake. The site is still not far from the coast. It lies within the Brobyån catchment area.

## 4.4.3 - Soil

Mineral (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

## 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 surface water	<input type="checkbox"/>	No change
Water inputs from rainfall	<input type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels fluctuating (including tidal)	No change

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

The main catchment is Brobyån but also Lörbäcken, Kvarnån, and Flarkån are important. The run-off either goes via a passage to Furufjärden or through the man-made passage that leads to Altersundet. Finally it ends in the Baltic Sea. Lake Persöfjärden was altered in 1937 when the water surface was lowered approximately 1 meter to increase the agricultural area.

## 4.4.5 - Sediment regime

Significant transportation of sediments occurs on or through the site (Update) Changes at RIS update No change  Increase  Decrease  Unknown Sediment regime unknown 

Please provide further information on sediment (optional):

The sediment transportation is significant for the EU boreal region, not with the global perspective.

## 4.4.6 - Water pH

Acid (pH<5.5) (Update) Changes at RIS update No change  Increase  Decrease  Unknown Unknown 

Please provide further information on pH (optional):

The acidification in Lake Persöfjärden is moderate. The evaluation of the acidification is preliminary. The source of the acidification is most likely diffuse leakage from drained sulphide soils (VISS 2015, <http://www.viss.lansstyrelsen.se/Waters.aspx?waterEUID=SE730909-178952>).

## 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

Eutrophic

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

Unknown

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

Lake Persöfjärden is subject to eutrophication and it will take time and future actions to change the ecological status of the site. Stepwise and combined actions are needed to reach the goal good ecological status according to the EU Frame Water Directive by 2021 (VISS 2015, <http://www.viss.lansstyrelsen.se/Waters.aspx?waterEUID=SE730909-178952>).

#### 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

### 4.5 - Ecosystem services

#### 4.5.1 - Ecosystem services/benefits

##### Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Erosion protection	Soil, sediment and nutrient retention	Low

##### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High

Other ecosystem service(s) not included above:

Regulating services: Purification of the water by sedimentation (Low)

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

##### 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):

The sami has the right to utilize the area for reindeer pasture

#### 5.1.2 - Management authority

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

County Administration Board in Norrbotten County.

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

Anna Högdahl

Postal address:

SE-971 86 LULEÅ, Sweden

E-mail address:

anna.hogdahl@lansstyrelsen.se

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

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

#### Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Housing and urban areas		Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Unspecified development		Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage	High impact	High impact	<input checked="" type="checkbox"/>	increase	<input type="checkbox"/>	No change

#### Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Livestock farming and ranching	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified/others	Medium impact	Medium impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dams and water management/use			<input checked="" type="checkbox"/>		<input type="checkbox"/>	

#### Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents	High impact	High impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Unspecified	High impact	High impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Air-borne pollutants	High impact	High impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Please describe any other threats (optional):

Under "pollution unspecified" Lake Persöfjärden is subject to high Mercury concentrations and the area does not meet the limit values concerning environmental toxins. The site is also subject to eutrophication which in some ways needs to continue to uphold the bird population but cannot reach severe levels. The ecological status of Lake Persöfjärden is considered moderate (VISS 2015). (Data retrieved from VISS 2015, <http://www.viss.lansstyrelsen.se/Waters.aspx?waterEUID=SE730909-178952#pagemodule38>).

Below the highest coastline, different kinds of land use may cause sulphate soils which have a negative effect on the Ramsar site. Forest and Agricultural drainage is a threat.

Forest drainage cause brownification of the water which has a negative effect on the macrophytes which in turn affects the food resources for birds.

Drains from surrounding properties are regarded as a threat because it contributes to pollution and eutrophication. Increasing exploitations cause disturbance from e.g light and sound which may decrease the foraging.

Regarding "human intrusions and disturbance" tall objects like e.g radio towers and electric Cables could pose a threat to birds in the area because of the risk of the birds colliding with the objects. Also disturbance caused by stray dogs during the birds staging and breeding season is a potential threat.

Also, silting because the water level of the lake was decreased in 1932 has a big impact on the vegetation.

### 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	Persöfjärden	<a href="http://www.lansstyrelsen.se/norr-botten/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/Natura%202000/Luleå,%20bevarandeplaner/Persofjarden_BP_2007.pdf">http://www.lansstyrelsen.se/norr-botten/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/Natura%202000/Luleå,%20bevarandeplaner/Persofjarden_BP_2007.pdf</a>	partly

#### National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
site of national importance for nature conservation		<a href="http://nvpub.vic-metria.nu/handlingar/rest/dokument/204218">http://nvpub.vic-metria.nu/handlingar/rest/dokument/204218</a>	whole

#### Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Lake Persöfjärden	<a href="http://datazone.birdlife.org/site/factsheet/lake-persofjarden-iba-sweden">http://datazone.birdlife.org/site/factsheet/lake-persofjarden-iba-sweden</a>	partly

### 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

<no data available>

### 5.2.4 - Key conservation measures

#### Legal protection

Measures	Status
Legal protection	Implemented

#### Habitat

Measures	Status
Catchment management initiatives/controls	Partially implemented
Soil management	Partially implemented

### 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

URL of site-related webpage (if relevant): [http://www.lansstyrelsen.se/norrbottn/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/Natura%202000/Luleå,%20bevarandeplaner/Persofjarden\\_BP\\_2007.pdf](http://www.lansstyrelsen.se/norrbottn/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/Natura%202000/Luleå,%20bevarandeplaner/Persofjarden_BP_2007.pdf)

### 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No, but a plan is being prepared

### 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water regime monitoring	Implemented
Water quality	Implemented
Birds	Implemented

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Gärdefors, U. 2015. Rödlistade arter i Sverige 2015 - The 2015 Red List of Swedish Species. Artdatabanken, SLU, Uppsala.

#### 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

<1 file(s) uploaded>

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

Please provide at least one photograph of the site:



Lake Persöfjärden - Shore meadow and reed beds. ( Länsstyrelsen i Norrbotten, 19-09-2006 )



Lake Persöfjärden - Shore meadow and reed beds. ( Länsstyrelsen i Norrbotten, 19-09-2006 )



Lake Persöfjärden ( Länsstyrelsen i Norrbotten, 19-09-2006 )



Lake Persöfjärden - Reed beds ( Länsstyrelsen i Norrbotten, 19-09-2006 )



Lake Persöfjärden ( Länsstyrelsen i Norrbotten, 19-09-2006 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1974-12-05