

Ramsar Information Sheet

Published on 27 March 2017 Update version, previously published on : 1 January 2002

Sweden Fylleån



Designation date
Site number
Coordinates
Area

14 November 2001
1119
56°39'51"N 12°57'56"E
910,00 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 encompasses parts of a river that is largely untouched by hydrological interventions. The water quality is good and offers suitable conditions for demanding species. Deciduous forests dominate close to the river. Dune areas are found at the river mouth.

The river is spawning ground to a unique wild salmon stock, and the benthic fauna is diverse. A constructed wetland close to the sea is a staging area for migratory birds and also an important breeding area for birds.

2 - Data & location

2.1 - Formal data

2.1	1.1	-	Name	and	ado	Iress	of	the	com	piler	of	this	RIS
-----	-----	---	------	-----	-----	-------	----	-----	-----	-------	----	------	-----

_			- 4
(,0	mni	lor	- 1
Co	וטווו	ıcı	- 1

Name	Viveka Strand (NFP: Jenny Lonnstad)
nstitution/agency	Länsstyrelsen i Hallands län, (AA Naturvårdsverket)
	Länsstyrelsen i Hallands län, 301 86 Halmstad. Sweden
	(AA Naturvårdsverket, 106 48 Stockholm, Sweden)
Postal address	
. ootal aaaloo	(AA registrator@naturvårdsverket.se)
	(AA Phone +46 10 698 10 00)
	,
	(AA Fax + 46 10 698 16 00)
E-mail	halland@lansstyrelsen.se
	9
Phone	+4602243000
1110110	1002210000
Fax	+4602243110
Гах	T4002243110

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

From year 2002

To year 2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Fylleån
Opariisti)	
Unofficial name (optional)	Fylleån (river)

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) The boundary has been delineated more accurately ☑
(Update) The boundary has been extended □
(Update) The boundary has been restricted □
(Update) B. Changes to Site area the area has decreased
^(Update) The Site area has been calculated more accurately ✓
^(Update) The Site has been delineated more accurately ☑
(Update) The Site area has increased because of a boundary extension
(Update) The Site area has decreased because of a boundary restriction

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?
(Update) Are the changes Positive O Negative O Positive & Negative ●
(Update) Positive % 1
(Update) Negative % 1
(Update) No information available
(Update) Changes resulting from causes operating within the existing boundaries?
(Update) Changes resulting from causes operating beyond the site's boundaries?
(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?
(Update) Changes consequent upon site boundary increase alone (e.g.,

(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.

The border has been slightly changed. The new border is based upon a digitalization of the old border made on a paper map, but the digitalization had some smaller discrepancies compared to the border on the paper map. We think these small changes in total have resulted in a small decrease of the site area. Areas excluded consist of open water, forests and grasslands. Areas added are part of forests, grasslands, railway and a built-up area.

Voc C	lpdate) Is the change in ecological character negative, human-induced
163	AND a significant change (above the limit of acceptable change)

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

Former maps	0			
-------------	---	--	--	--

2.2.2 - General location

- a) In which large administrative region does Halland the site lie?
 - b) What is the nearest town or population Halmstad, Laholm, Ljungby centre?

2.2.3 - For wetlands on national boundaries only

- a) Does the wetland extend onto the territory of one or more other countries?
- b) Is the site adjacent to another designated Ramsar Site on the Yes O No (9) territory of another Contracting Party?

GIS boundaries

2.2.4 - Area of the Site

Official area, in hectares (ha): 910 Area, in hectares (ha) as calculated from 910.04

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Freshwater Ecoregions of the World (FEOW)	406 Northern Baltic drainages
Other scheme (provide name below)	See textbox below
WWF Terrestrial Ecoregions	Sarmatic mixed forest PA0436
Udvardy's Biogeographical Provinces	11 Middle European Forest
Bailey's Ecoregions	240 Marine division
EU biogeographic regionalization	Continental and Boreal
Marine Ecoregions of the World (MEOW)	25. North sea

Other biogeographic regionalisation scheme

Södra Hallands kustland (Nordiska ministerrådet 1984, Naturgeografiska regioner i Norden). Sarmatic mixed forest (EEA 2002, "DMEER" Digital Map of European Ecological Regions) Marine Atlantic (EU Marine regions)

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

Other reasons

This river system is representative to the EU boreal and continental region, and in a near natural state.

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3 : Biological diversity

Justification

Fylleån supports particular elements of biological diversity that are rare of the EU Continental region. The benthic fauna is very diverse, and the fish stock includes a highly valued unique population of salmon.

- ☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions
- ☑ Criterion 7 : Significant and representative fish

Justification

The site has a large biodiversity when it concerns fish. Altogether 25 fish species have been found in the river and that is a lot for the FEOW region Northern Baltic drainages. Families at the site include Percidae, Cyprinidae, Salmonidae, Gadiformes, Gasterosteidae, Anguillidae and Petromyzontidae. The river is a spawning area for a genetically unique subpopulation of wild salmon (Salmo salar). The site is feeding area for the red listed European Eel. Sea lamprey is re-producing the lower parts of the river, a species rare and red listed in Sweden.

☑ Criterion 8 : Fish spawning grounds, etc.

Justification

Fylleån is a critical spawning ground and nursery area for freshwater and diadromous fish species such as salmon and trout.

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 CITES Appendix I List	Other status	Justification
Atriplex laciniata		 ✓				Swedish Red List 2015 (EN)	See textbox below the table.
Bryhnia novae-angliae		V				Swedish Red List 2015 (VU)	See textbox below the table.
Euphrasia micrantha		V				Swedish Red List 2015 (VU)	See textbox below the table.
Gentiana pneumonanthe		2	 ✓			Swedish Red List 2015 (VU)	See textbox below the table.
Hookeria lucens			 ✓			Swedish Red List 2015 (NT)	See textbox below the table.
Isolepis setacea		V			LC	Swedish Red List 2015 (EN)	See textbox below the table.
Juncus capitatus	leafybract dwarf rush	V				Swedish Red List 2015 (EN)	See textbox below the table.
Taraxacum duplidentifrons		V				Swedish Red List 2015 (VU)	See textbox below the table.
Taraxacum maculigerum		/				Swedish Red List 2015 (VU)	See textbox below the table.

Criterion 2 and 3: For all species, the Swedish red-list status and general information for that classification etc can be found at http://artfakta.artdatabanken.se/. Observations can be found in www.artportalen.se.

Criteria 3: The site support a number of wetland species typical for these kinds of wetlands in the EU Boreal and Continental region.

The lichens Rinodina fimbriata (Swedish Red List CR) and Poridia hydrophila (Swedish Red List NT) are also part of the justification of criteria 3. They were not accepted by the RSIS in the table above.

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

J.J - Allillai Spi	00100 1111000	production rel	idico to	tile iii	Ciriatio	nai importan		JILC				
Phylum	Scientific name	Common name	Species qualifies under criterior 2 4 6	contri un crite	HOH	Period of pop. Est	t. occurrence F	ICN (led Ap	CITES ppendix I	CMS Appendix I	Other Status	Justification
Birds												
CHORDATA/ AVES	Alcedo atthis	Common Kingfisher	7				L	C Str			Swedish Red List 2015 (VU)	Foraging. See textbox below the table.
CHORDATA/ AVES	Anas querquedula	Garganey	$ \mathbf{Z} \Box \Box $				L	C St			Swedish Red List 2015 (VU)	See textbox below the table.
CHORDATA/ AVES	Chroicocephalus ridibundus	Black-headed Gull				2014						Important breeding area. See textbox below the table.
CHORDATA/ AVES	Emberiza schoeniclus	Common Reed Bunting; Reed Bunting; Common Reed-Bunting	9 00				L	C S			Swedish Red List 2015 (VU)	See textbox below the table.
CHORDATA/ AVES	Numenius arquata	Eurasian Curlew						IT Str Other			Swedish Red List 2015 (NT)	Staging site. See textbox below the table.
CHORDATA/ AVES	Remiz pendulinus	Eurasian Penduline Tit	77					C St			Swedish Red List 2015 (EN)	Breeding. See textbox below the table.
CHORDATA/ AVES	Sternula albifrons	Little Tern	7				L	C St			Swedish Red List 2015 (VU). EC Birds Directive Annex I.	Breeding, staging, foraging. See textbox below the table.
Fish, Mollusc and Cr	ustacea											
CHORDATA/ ACTINOPTERYGII	Anguilla anguilla	Eel	$ \mathcal{Z} \Box \Box $		1			R S			Swedish Red List 2015 (CR).	Foraging. See textbox below the table.
CHORDATA/ CEPHALASPIDOMORPH	Petromyzon marinus	Lamprey Eel			V		L	C ISP			Swedish Red List 2015 (NT).	Suitable reproduction habitats available. See textbox below the table.
CHORDATA/ ACTINOPTERYGII	Salmo salar	Salmon			V V						EC Habitats Directive Annex II.	Genetically the population is unique for Fylleån. Spawning and nursery habitats present. See textbox below the table.
CHORDATA/ ACTINOPTERYGII	Salmo trutta				V		L	.C 部				Spawning habitats. See textbox below the table.
Others												
ARTHROPODA/ INSECTA	Beraea maurus										Swedish Red List 2015 (VU)	See textbox below the table.
ARTHROPODA/ INSECTA	Brachyptera braueri										Swedish Red List 2015 (VU)	See textbox below the table.
ARTHROPODA/ INSECTA	Cicindela maritima		2 00								Swedish Red List 2015 (VU)	See textbox below the table.
CHORDATA/ MAMMALIA	Lutra lutra	European Otter					l l	JT DEFF	√		Swedish Red List 2015 (NT)	See textbox below the table.

1) Percentage of the total biogeographic population at the site

Criterion 2 and 3: For all species, their status in the Swedish Red List and general information for that classification etc can be found at http://artfakta.artdatabanken.se/. Observations can be found in www.artportalen.se.

Criteria 3: The site supports a number of wetland species typical or for these kinds of wetlands in the EU Boreal and Continental region.

Criteria 4: All the species where criteria 4 is applies are breeding within 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
3260. Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation	Ø	Water courses of plain to montane levels, with submerged or floating vegetation of the Ranunculionfluitantis and Callitricho-Batrachion (low water level during summer) or aquatic mosses.	EC Habitats Directive Annex II. The conservation status (2013) was unfavourable in the Swedish part of the EU Continental and EU Boreal region respectively.

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

4.1 - Ecological character

A near natural river that is representative to the region, with seasonal cycles in water flow and occasional flooding. A variety of habitats occur including waterfalls, gravel areas and along the coastline where the river enters the sea there are sand dunes. The river is spawning ground to a unique wild salmon stock, and the benthic fauna is diverse. A constructed wetland close to the sea is a staging area for migratory birds and also an important breeding area for birds.

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
A: Permanent shallow marine waters		2		Representative
B: Marine subtidal aquatic beds (Underwater vegetation)		0		Representative
E: Sand, shingle or pebble shores		3		

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		1		Representative
Fresh water > Marshes on peat soils >> U: Permanent Non- forested peatlands		0		Representative
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands	Wet Alnus forests	4		Representative
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		0		Representative
Fresh water > Flowing water >> Y: Permanent Freshwater springs; oases		0		Representative

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
2: Ponds		0		

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
deciduous forest, coniferous forest, arable land	

4.3 - Biological components

4.3.1 - Plant species

Invasive alien plant species

invasive alien plant species			
Scientific name	Common name	Impacts	Changes at RIS update
Impatiens glandulifera		Potentially	unknown
Lysichiton americanus		Potentially	increase

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATA/AVES	Circus aeruginosus	Western Marsh Harrier				EC Birds Directive Annex I
CHORDATA/AVES	Recurvirostra avosetta	Pied Avocet				EC Birds Directive Annex I
CHORDATA/MAMMALIA	Muscardinus avellanarius					EU Habitat Directive Annex

Invasive alien animal species

Phylum	Scientific name	Common name	Impacts	Changes at RIS update
ARTHROPODA/MALACOSTRACA	Pacifastacus Ieniusculus	signal crayfish	No impacts	No change
PLATYHELMINTHES/MONOGENEA	Gyrodactylus salaris		Potentially	No change
CHORDATA/MAMMALIA	Neovison vison		Potentially	No change

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Cfb: Marine west coast (Mild with no dry season, warm summer)

112	Geomor	nhia	cotting
4.4.2 -	Geomoi	DIIIC	Semin

a) Mnimum elevation above sea level (in metres)
a) Maximum elevation above sea level (in metres) 60
Entire river basin
Upper part of river basin ☐
Mddle 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 is part of the river basin Fylleån. It includes the river with its surroundings in the lower part of the catchment area. The river enters the Kattegatt. Part of the coast is also part of the site.

The river is Fylleån water body EU_CD: SE628804-132692.

4.4.3 - Soil

Mineral

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

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)?

4.4.4 - Water regime

Water permanence

Trator pormanono				
Presence?	Changes at RIS update			
Usually permanent water present	No change			

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from rainfall		No change
Water inputs from groundwater		No change
Water inputs from surface water	2	No change

Water destination

Presence?	Changes at RIS update	
Marine	No change	

Stability of water regime

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

4.4.5 - Sediment regime

Significant erosion of sediments occurs on the site \square
(Update) Changes at RIS update No change O Increase O Decrease O Unknown ●
Significant accretion or deposition of sediments occurs on the site
(Update) Changes at RIS update No change ○ Increase ○ Decrease ○ Unknown ◎
Significant transportation of sediments occurs on or through the site \Box
^(Update) Changes at RIS update No change O Increase O Decrease O Unknown ●
Sediment regime is highly variable, either seasonally or inter-annually \Box
(Update) Changes at RIS update No change ○ Increase ○ Decrease ○ Unknown ●
Sediment regime unknown □

4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4)	£
Jodate) Changes at DIC undate	No

tte) Changes at RIS update. No change $oldsymbol{@}$ Increase $oldsymbol{O}$ Decrease $oldsymbol{O}$ Unknown $oldsymbol{O}$

Unknown

Please provide further information on pH (optional):

Liming occurs in several parts of the catchment area.

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update No change

Increase

Decrease

Unknown

O

Please provide further information on salinity (optional):

The salinity of the surface water in the sea close to the site is 15-20 psu.

4.4.8 - Dissolved or suspended nutrients in water

Oligotrophic 🗹

Unknown

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 i) broadly similar O ii) significantly different \odot site itself

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use $\ensuremath{\omega}$

Surrounding area has significantly different land cover or habitat types $\ensuremath{\overline{\sigma}}$

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

The site consists of the river valley with the river, wetlands and adjacent deciduous forest. The river mouths in the sea Kattegatt.

The western part of the site is surrounded by arable land and built-up areas. The eastern part of the site is surrounded by forests and small villages.

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
Fresh water	Drinking water for humans and/or livestock	Medium
Fresh water	Water for energy production (hydro-electricity)	Low
Fresh water	Water for irrigated agriculture	Low
Wetland non-food products	Livestock fodder	Low

Cultural Services

Cartara Cornocc		
Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Nature observation and nature-based tourism	Medium
Recreation and tourism	Picnics, outings, touring	Medium

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	High

Within the site: 1000 Outside the site: 100000

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

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	

4.6 - Ecological processes

<no data available>

<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

ı ub	lic owners	u III

Category	Within the Ramsar Site	In the surrounding area
Local authority, municipality, (sub)district, etc.	2	2
National/Federal government	/	

Private ownership

1 Trace ownership		
Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	/	V

5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for	
managing the site:	
Provide the name and title of the person or people with responsibility for the wetland:	Kontaktperson för Ramsarområden
Postal address:	Länsstyrelsen i Hallands län 30186 Halmstad
E-mail address:	halland@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
Commercial and industrial areas	Low impact	Medium impact		unknown	>	unknown
Housing and urban areas	Low impact	High impact		unknown	✓	unknown

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage	Low impact	High impact	✓	unknown	✓	unknown
Canalisation and river regulation	Medium impact	High impact	✓	No change		No change

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Marine and freshwate aquaculture	Low impact	High impact	✓	No change	✓	No change

Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Renewable energy	Medium impact	High impact	✓	No change		No change

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Roads and railroads	Low impact	Medium impact	✓	No change		No change

Biological resource use

Biological resource use	lological resource use							
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes		
Logging and wood harvesting	Medium impact	High impact	✓	unknown	✓	unknown		
Fishing and harvesting aquatic resources	Medium impact	High impact	2	unknown	2	unknown		

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Low impact	Medium impact	2	unknown		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	Medium impact	High impact	2	unknown	⊘	unknown
Vegetation clearance/ land conversion	Medium impact	High impact	>	unknown	✓	unknown

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	Low impact	High impact	✓	increase	>	unknown

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Air-borne pollutants	Medium impact	High impact	✓	unknown	✓	decrease
Agricultural and forestry effluents	Medium impact	High impact	/	unknown	2	unknown
Household sewage, urban waste water	Low impact	High impact	/	unknown	2	unknown

Please describe any other threats (optional):

The renewable energy production that is considered a threat to the site is hydropower. Three minor power stations occur at the site. They all have fish ladders, but nonetheless they are barriers to fish and other organisms as well as sediment transport, and they may affect the water flow.

5.2.2 - Legal conservation status

Regional (international) legal designations

Togiona (monatona) toga designations								
Designation type	Name of area	Online information url	Overlap with Ramsar Site					
EU Natura 2000	3 sites see national legislation below.		partly					

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Bird Sanctuaries	Trönningeängar, Skäret		partly
Natura 2000 SCI (1)	Fylleån	www.lansstyrelsen.se/halland/Sit eCollectionDocuments/sw/djur-och- natur/skyddad-natur/natura-2000 /Fylleån.pdf	partly
Natura 2000 SCI (2)	Brogård	www.lansstyrelsen.se/halland/Sit eCollectionDocuments/sv/djur-och- natur/skyddad-natur/natura-2000 /Brogård.pdf	partly
Natura 2000 SCI (3)	Årnarp	www.lansstyrelsen.se/halland/Sit eCollectionDocuments/sv/djur-och- natur/skyddad-natur/natura-2000 /Årnarp.pdf	partly
Natural Monument	Slyngestenen		partly
Nature Reserve (1)	Hagön	www.lansstyrelsen.se/halland/Sv/ djur- och-natur/skyddad-natur/nat urreservat/halmstad/Pages/hagon.aspx	partly
Nature Reserve (2)	Brogård	www.lansstyrelsen.se/halland/Sv/ djur- och-natur/skyddad-natur/nat urreservat/halmstad/Pages/brogar d.aspx	partly
Nature Reserve (3)	Åmarp	www.lansstyrelsen.se/halland/Sv/ djur- och-natur/skyddad-natur/nat urreservat/halmstad/Pages/amarp .aspx	partly
Protected landscape	Fyllingeåns dalgång and Strandområdet Påarp- Fylleåns mynning		partly

5.2.3 - IUCN protected areas categories (2008)

Reserve 🗆	la Strict Nature Res
derness or tection	lb Wilderness Area: protected area managed mainly for wilden prote
osystem creation	Il National Park: protected area managed mainly for ecosystems protection and recre
ervation 📝 features	Natural Monument: protected area managed mainly for conserv of specific natural feat
d mainly 📝	/Habitat/Species Management Area: protected area managed m for conservation through management interve
nainly for 📝 creation	Protected Landscape/Seascape: protected area managed main landscape/seascape conservation and recre
d mainly asystems	Managed Resource Protected Area: protected area managed m for the sustainable use of natural ecosyst

5.2.4 - Key conservation measures

Legal protection

Logar protoction	
Measures	Status
Legal protection	Partially implemented

Habitat

	Measures	Status
	Improvement of water quality	Implemented
	Faunal corridors/passage	Partially implemented

Human Activities

Measures	Status
Fisheries management/regulation	Partially implemented
Regulation/management of recreational activities	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 O No •

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No

processes with another Contracting Party?

5.2.6 - Planning for restoration

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

Further information

Within the site there are three ponds for hydropower: Fyllinge kvarn, Marbäcks bruk, Linnebergsmöllan. All three have fish ways, but they are probably not working for fish with weak swimming abilities like minnow, roach and perch. The dams result in disturbed sediment transportation and occupy valuable spawning areas for Salmon.

Invasive species occurs in the site, among them Lysichiton americanus, and Pacifastacus leniusculus and Gyrodactylus salaris.

Forestry occurs close to the river, and a buffer zone needs to be implemented.

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water quality	Implemented
Animal community	Implemented

Monitoring of benthic invertebrates. Monitoring of reproduction of salmon, trout and other fishes.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Bengtsson, S. 1996. Naturvårdsprogram för Hallands län. Del 3. Halmstads kommun. Södra delen. Länsstyrelsen i Halland.

Boström, A. & Nilsson, C. 2014. Bottenfauna i Hallands län 2014. Biologisk uppföljning i kalkade vatten. Länsstyrelsen i Hallands län. Meddelande 2014:15

Erlandsson, J. 2001. Områden av riksintresse för naturvård i Hallands län. NN18 Simlångsdalen-Tönnersjöheden, s. 81-89. Länsstyrelsen Halland. Meddelande 2001: 20.

Forslund, M. & Rundlöf, S. 1984. Inventering av våtmarker i Hallands län. Länsstyrelsen i Hallands län. Meddelande 1985:1.

Fritz, Ö. 1996. Inventering av skogliga nyckelbiotoper inom naturskyddade områden i Hallands län 1995. Del 1. Södra länsdelen. Tar upp Brogård NR, s. 103-107 och Årnarp NR, s. 212-216. Länsstyrelsen i Hallands län. Meddelande 1996: 10.

Fritz, Ö. 1996. Ytvattenvårdsprogram för Hallands län 1996. Länsstyrelsen i Hallands län. Del 2. Södra länsdelen. Fylleån, s. 107-132. Meddelande 1996: 13.

Ivarsson, J. 1990. Geologisk inventering av Fylleåns dalgång. Länsstyrelsen i Hallands län. Meddelande 1990: 10.

Nordiska ministerrådet. 1984. Naturgeografisk regionindelning av Norden.

Rådén, R., Larsson, H., Bloch, I. & Johansson, J. 2014. Fiskeribiologisk undersökning inom Fylleåns kalkningsprojekt 2014. En undersökning av fiskfaunan vid nio lokaler i rinnande vatten. Länsstyrelsen i Hallands län. Meddelande 2014:20.

Sjöstrand, P. 2001. Sammanställning av uppföljande elfiske 2000 inom Fylleåns kalkningsprojekt. Länsstyrelsen i Hallands län. Meddelande 2001: 5.

Stibe, L. 2014. Vattenkemisk uppföljning i kalkade sjöar och vattendrag i Hallands län 2009-2013. Länsstyrelsen i Hallands län. Meddelande 2014:18.

Strand, V. 2013.Biotopkartering av Fylleån. Länsstyrelsen i Hallands län. Meddelande 2013:18.

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



Norteforsen (Länsstyrelsen Halland, 09-05-2011)



Tolarpsfallet (Länsstyrelsen Halland, 23-10-2009)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2001-11-14