

## **Annex 3:**

# **Wetlands of St. Johann in Tyrol**

## Saddle mire "Schindlerin" (3827/101-19)

Transitional mire with both, species characteristic for bogs and typical fen species. On the steeper marginal part to the northeast of the saddle tall herb vegetation has developed. The northwestern part of the mire is afforested with spruce.

**Size** 1,5 ha

**Altitude:** 860-870 m

**Species list 1: Saddle mire "Schindlerin"**

Species name	Austrian Red Data Book
<i>Calluna vulgaris</i>	
<i>Frangula alnus</i>	
<i>Picea abies</i>	
<i>Vaccinium myrtillus</i>	
<i>Vaccinium oxycoccos</i>	gefährdet
<i>Vaccinium uliginosum</i>	stark gefährdet
<i>Anemone nemorosa</i>	
<i>Arnica montana</i>	regional gefährdet
<i>Carex echinata</i>	
<i>Carex nigra</i>	regional gefährdet
<i>Carex panicea</i>	regional gefährdet
<i>Dactylorhiza majalis</i>	regional gefährdet
<i>Drosera rotundifolia</i>	gefährdet
<i>Eriophorum angustifolium</i>	regional gefährdet
<i>Eriophorum vaginatum</i>	regional gefährdet
<i>Gentiana asclepiadea</i>	
<i>Homogyne alpina</i>	
<i>Juncus effusus</i>	
<i>Lysimachia vulgaris</i>	
<i>Maianthemum bifolium</i>	
<i>Melampyrum sylvaticum</i>	
<i>Molinia caerulea</i>	
<i>Polygala alpestris</i>	potentiell gefährdet
<i>Potentilla erecta</i>	
<i>Scirpus sylvaticus</i>	
<i>Solidago virgaurea</i>	
<i>Sorbus aucuparia</i>	
<i>Succisa pratensis</i>	
<i>Tofieldia calyculata</i>	regional gefährdet
<i>Trichophorum alpinum</i>	regional gefährdet
<i>Polytrichum strictum</i>	
<i>Sphagnum magellanicum</i>	

**Species list 2: Tall herb vegetation to the southwest of "Schindlerin"**

Species name	Austrian Red Data Book
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus incana</i>	
<i>Frangula alnus</i>	
<i>Picea abies</i>	
<i>Salix appendiculata</i>	
<i>Salix cinerea</i>	
<i>Anemone nemorosa</i>	
<i>Caltha palustris</i>	regionally endangered
<i>Carex brizoides</i>	
<i>Carex echinata</i>	
<i>Chaerophyllum hirsutum</i>	
<i>Cirsium palustre</i>	
<i>Crepis paludosa</i>	
<i>Dactylorhiza traunsteineri</i>	highly endangered
<i>Drosera rotundifolia</i>	endangered
<i>Equisetum sylvaticum</i>	
<i>Eriophorum latifolium</i>	regionally endangered
<i>Galium palustre</i> agg.	
<i>Juncus effusus</i>	
<i>Leucojum vernum</i>	regionally endangered
<i>Lychnis flos-cuculi</i>	
<i>Lysimachia vulgaris</i>	
<i>Lythrum salicaria</i>	
<i>Mentha longifolia</i>	
<i>Molinia caerulea</i>	
<i>Myosotis scorpioides</i>	
<i>Potentilla erecta</i>	
<i>Scirpus sylvaticus</i>	
<i>Thelypteris limbosperma</i>	
<i>Valeriana dioica</i>	regionally endangered
<i>Veronica chamaedrys</i>	
<i>Viola palustris</i>	regionally endangered
<i>Sphagnum fallax</i>	potentially endangered



## Waterfall, springs and spring fens in the "Niederkaiser" region (3827-101/23 and 3927-100/23)

Size of springs and springfens: 0,3 ha

Altitude: 712-1425 m

### Species list: Vegetation at the source of "Maurerbach"

Species name	Austrian Red Data Book
<i>Daphne mezereum</i>	
<i>Erica herbacea</i>	
<i>Rhododendron hirsutum</i>	
<i>Salix appendiculata</i>	
<i>Salix purpurea</i>	
<i>Salix waldsteiniana</i>	
<i>Adenostyles glabra</i>	
<i>Aposeris foetida</i>	
<i>Aster bellidiastrum</i>	
<i>Athyrium filix-femina</i>	
<i>Calamagrostis varia</i>	
<i>Carex flava</i> agg.	
<i>Crepis paludosa</i>	
<i>Dryopteris filix-mas</i>	
<i>Eupatorium cannabinum</i>	
<i>Gentiana asclepiadea</i>	
<i>Gentianella ciliata</i>	
<i>Gentianella germanica</i> agg.	
<i>Geranium robertianum</i>	
<i>Juncus articulatus</i>	
<i>Juncus effusus</i>	
<i>Melampyrum sylvaticum</i>	
<i>Melica nutans</i>	
<i>Mentha longifolia</i>	
<i>Myosotis scorpioides</i>	
<i>Petasites paradoxus</i>	
<i>Pinguicula vulgaris</i>	
<i>Potentilla erecta</i>	
<i>Primula farinosa</i>	
<i>Ranunculus montanus</i> agg.	
<i>Tofieldia calyculata</i>	
<i>Carlina acaulis</i>	
<i>Senecio erucifolius</i>	endangered
<i>Cratoneuron commutatum</i>	
<i>Hylocomium splendens</i>	

**Noteworthy birds of the "Niederkaiser" region:** *Falco peregrinus*, *Picoides leucotos*, *Tetrao tetrix*, *Tetrao urogallus*, *Jynx torquilla*, *Phoenicurus phoenicurus*, *Aquila chrysaetos*, *Bonasa bonasia*, *Scolopax rusticola*, *Bubo bubo*, *Cinclus cinclus*, *Saxicola rubetra*, *Ficedula parva*, *Pernis apivorus*, *Accipiter nisus*, *Accipiter gentilis*, *Falco subbuteo*



Waterfall "Schleierwasserfall"

## "Rehrermoos" (3827/101-30)

Well developed bog with an alder carr along the eastern margin.

**Size:** 0,5 ha

**Altitude:** 770 m

### Species list 1: Western part of the bog

Species name	Austrian Red Data Book
<i>Andromeda polifolia</i>	endangered
<i>Frangula alnus</i>	
<i>Pinus mugo</i>	
<i>Pinus sylvestris</i>	
<i>Vaccinium myrtillus</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Vaccinium uliginosum</i>	highly endangered
<i>Carex nigra</i>	regionally endangered
<i>Drosera rotundifolia</i>	endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Juncus filiformis</i>	
<i>Molinia caerulea</i>	
<i>Rhynchospora alba</i>	endangered
<i>Sphagnum palustre</i>	
<i>Sphagnum sp.</i>	potentially endangered

### Species list 2: Eastern part of the bog

Species name	Austrian Red Data Book
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus incana</i>	
<i>Frangula alnus</i>	
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus incana</i>	
<i>Carex flava</i> agg.	regionally endangered
<i>Chaerophyllum hirsutum</i>	
<i>Crepis paludosa</i>	
<i>Dactylorhiza fuchsii</i>	
<i>Equisetum fluviatile</i>	
<i>Eupatorium cannabinum</i>	
<i>Filipendula ulmaria</i>	
<i>Galium uliginosum</i>	
<i>Juncus effusus</i>	
<i>Lycopus europaeus</i>	
<i>Lysimachia vulgaris</i>	
<i>Mentha aquatica</i>	
<i>Mentha arvensis</i>	
<i>Molinia caerulea</i>	
<i>Myosotis scorpioides</i>	
<i>Potentilla erecta</i>	
<i>Prunella vulgaris</i>	
<i>Scirpus sylvaticus</i>	

## Fen to the southwest of "Schoinern" (3827/101-31)

Fen dominated by *Molinia caerulea* with some springs and transitional parts

**Size:** 0,3 ha

**Altitude:** 750 m

### Species list:

Species name	Austrian Red Data Book
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus incana</i>	
<i>Frangula alnus</i>	
<i>Picea abies</i>	
<i>Ajuga reptans</i>	
<i>Briza media</i>	
<i>Carex echinata</i>	
<i>Carex flava</i> agg.	regionally endangered
<i>Carex nigra</i>	regionally endangered
<i>Carex panicea</i>	regionally endangered
<i>Cirsium palustre</i>	
<i>Dactylorhiza majalis</i>	regionally endangered
<i>Drosera rotundifolia</i>	endangered
<i>Equisetum sylvaticum</i>	
<i>Eriophorum angustifolium</i>	regionally endangered
<i>Eriophorum latifolium</i>	regionally endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Galium palustre</i> agg.	
<i>Juncus articulatus</i>	
<i>Juncus effusus</i>	
<i>Leontodon hispidus</i>	
<i>Molinia caerulea</i>	
<i>Myosotis scorpioides</i>	
<i>Parnassia palustris</i>	regionally endangered
<i>Pinguicula vulgaris</i>	regionally endangered
<i>Platanthera bifolia</i>	
<i>Polygala alpestris</i>	potentially endangered
<i>Potentilla erecta</i>	
<i>Prunella vulgaris</i>	
<i>Pteridium aquilinum</i>	
<i>Valeriana dioica</i>	regionally endangered
<i>Viola</i> sp.	
<i>Sphagnum fallax</i>	potentially endangered
<i>Sphagnum girgensohnii</i>	
<i>Sphagnum magellanicum</i>	

## Bog to the west of "Maurern" (3827/101-32)

Open bog with mountain pines only in the margins.

**Size:** 1,2 ha

**Altitude:** 900 m

### Species list

Species name	Austrian Red Data Book
<i>Pinus sylvestris</i>	
<i>Calluna vulgaris</i>	
<i>Frangula alnus</i>	
<i>Pinus mugo</i>	
<i>Salix cinerea</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Vaccinium uliginosum</i>	highly endangered
<i>Agrostis tenuis</i>	
<i>Carex brizoides</i>	
<i>Carex echinata</i>	
<i>Carex flava</i> agg.	regionally endangered
<i>Carex nigra</i>	regionally endangered
<i>Carex panicea</i>	regionally endangered
<i>Cirsium palustre</i>	
<i>Dactylorhiza majalis</i>	regionally endangered
<i>Drosera rotundifolia</i>	endangered
<i>Equisetum sylvaticum</i>	
<i>Eriophorum latifolium</i>	regionally endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Eupatorium cannabinum</i>	
<i>Galium palustre</i> agg.	
<i>Juncus articulatus</i>	
<i>Juncus effusus</i>	
<i>Melampyrum sylvaticum</i>	
<i>Molinia caerulea</i>	
<i>Platanthera bifolia</i>	
<i>Polygala alpestris</i>	potentially endangered
<i>Potentilla erecta</i>	
<i>Ranunculus flammula</i>	potentially endangered
<i>Rhynchospora alba</i>	endangered
<i>Scirpus sylvaticus</i>	
<i>Senecio fuchsii</i>	
<i>Succisa pratensis</i>	
<i>Viola palustris</i>	regionally endangered
<i>Sphagnum capillifolium</i>	endangered
<i>Sphagnum magellanicum</i>	
<i>Sphagnum subsecundum</i>	endangered



## Bog beneath "Schoinern" (3827/101-33)

Bog that had been drained and - unsuccessfully - afforested with spruce passing into a diverse litter meadow and former pasture.

**Size:** 1,5 ha

**Altitude:** 800 m

### Species list 1: Former pasture

Species name	Austrian Red Data Book
<i>Calluna vulgaris</i>	
<i>Frangula alnus</i>	
<i>Picea abies</i>	
<i>Salix appendiculata</i>	
<i>Vaccinium myrtillus</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Vaccinium uliginosum</i>	highly endangered
<i>Anemone nemorosa</i>	
<i>Arnica montana</i>	regionally endangered
<i>Athyrium filix-femina</i>	
<i>Carex brizoides</i>	
<i>Chaerophyllum hirsutum</i>	
<i>Cirsium oleraceum</i>	
<i>Cirsium palustre</i>	
<i>Crepis paludosa</i>	
<i>Drosera rotundifolia</i>	endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Galeopsis speciosa</i>	
<i>Galium uliginosum</i>	
<i>Gentiana asclepiadea</i>	
<i>Homogyne alpina</i>	
<i>Juncus effusus</i>	
<i>Lathyrus pratensis</i>	
<i>Lysimachia vulgaris</i>	
<i>Melampyrum pratense</i>	
<i>Mentha arvensis</i>	
<i>Molinia caerulea</i>	
<i>Pteridium aquilinum</i>	
<i>Scirpus sylvaticus</i>	
<i>Senecio fuchsii</i>	
<i>Solidago virgaurea</i>	
<i>Succisa pratensis</i>	
<i>Trollius europaeus</i>	regionally endangered
<i>Viola palustris</i>	regionally endangered
<i>Carex panicea</i>	regionally endangered
<i>Polytrichum commune</i>	
<i>Sphagnum sp.</i>	potentially endangered

**Species list 2: Afforested part of the mire**

<b>Species name</b>	<b>Austrian Red Data Book</b>
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus incana</i>	
<i>Betula pubescens</i>	endangered
<i>Frangula alnus</i>	
<i>Salix cinerea</i>	
<i>Andromeda polifolia</i>	endangered
<i>Calluna vulgaris</i>	
<i>Vaccinium myrtillus</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Vaccinium uliginosum</i>	highly endangered
<i>Carex echinata</i>	
<i>Carex nigra</i>	regionally endangered
<i>Drosera rotundifolia</i>	endangered
<i>Eriophorum angustifolium</i>	regionally endangered
<i>Juncus effusus</i>	
<i>Molinia caerulea</i>	
<i>Viola palustris</i>	regionally endangered
<i>Polytrichum commune</i>	
<i>Sphagnum magellanicum</i>	

## Mire complex above "Granderhöfe" (3827/101-37)

Complex of open bogs, transitional mires, mountain pine dominated bog and alder carr at the northern margin. A further small bog is located above "Waldhäusel".

**Size:** 6,8 ha

**Altitude:** 700-800 m

### Species list 1: Mountain pine bog - western part of the mire complex

Species name	Austrian Red Data Book
<i>Pinus sylvestris</i>	
<i>Andromeda polifolia</i>	endangered
<i>Calluna vulgaris</i>	
<i>Frangula alnus</i>	
<i>Juniperus communis</i>	regionally endangered
<i>Pinus mugo</i>	
<i>Vaccinium myrtillus</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Vaccinium uliginosum</i>	highly endangered
<i>Vaccinium vitis-idaea</i>	
<i>Carex echinata</i>	
<i>Carex nigra</i>	regionally endangered
<i>Drosera rotundifolia</i>	endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Juncus articulatus</i>	
<i>Juncus effusus</i>	
<i>Melampyrum sylvaticum</i>	
<i>Molinia caerulea</i>	
<i>Polytrichum sp.</i>	
<i>Sphagnum imbricatum</i>	endangered to become extinct
<i>Sphagnum quinquefarium</i>	

### Species list 2: Southern part of the mire complex

Species name	Austrian Red Data Book
<i>Pinus sylvestris</i>	
<i>Frangula alnus</i>	
<i>Pinus mugo</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Carex nigra</i>	regionally endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Potentilla erecta</i>	
<i>Sphagnum fallax</i>	potentially endangered

### Species list 3: Northern part of the mire complex

Species name	Austrian Red Data Book
<i>Alnus glutinosa</i>	regionally endangered
<i>Andromeda polifolia</i>	endangered
<i>Vaccinium oxycoccos</i>	endangered
<i>Calla palustris</i>	endangered to become extinct
<i>Carex echinata</i>	
<i>Carex pauciflora</i>	endangered
<i>Dactylorhiza majalis</i>	regionally endangered
<i>Drosera intermedia</i>	highly endangered
<i>Equisetum sylvaticum</i>	
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Juncus articulatus</i>	
<i>Juncus filiformis</i>	
<i>Molinia caerulea</i>	
<i>Polygala alpestris</i>	potentially endangered
<i>Rhynchospora alba</i>	endangered
<i>Succisa pratensis</i>	
<i>Trichophorum alpinum</i>	regionally endangered
<i>Sphagnum flexuosum</i>	potentially endangered
<i>Sphagnum magellanicum</i>	
<i>Sphagnum majus</i>	highly endangered
<i>Sphagnum papillosum</i>	endangered

### Species list 4: Slightly sloping bog in the eastern part of the mire complex

Species name	Austrian Red Data Book
<i>Betula pendula</i>	
<i>Pinus sylvestris</i>	
<i>Alnus glutinosa</i>	regionally endangered
<i>Andromeda polifolia</i>	endangered
<i>Calluna vulgaris</i>	
<i>Frangula alnus</i>	
<i>Pinus sylvestris</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Vaccinium uliginosum</i>	highly endangered
<i>Carex echinata</i>	
<i>Carex flava</i> agg.	regionally endangered
<i>Carex nigra</i>	regionally endangered
<i>Cirsium palustre</i>	
<i>Dactylorhiza majalis</i>	regionally endangered
<i>Drosera intermedia</i>	highly endangered
<i>Drosera rotundifolia</i>	endangered
<i>Equisetum sylvaticum</i>	
<i>Eriophorum angustifolium</i>	regionally endangered
<i>Eriophorum vaginatum</i>	regionally endangered
<i>Juncus articulatus</i>	
<i>Linum catharticum</i>	
<i>Molinia caerulea</i>	
<i>Polygala alpestris</i>	potentially endangered
<i>Potentilla erecta</i>	
<i>Rhynchospora alba</i>	endangered
<i>Trichophorum alpinum</i>	regionally endangered
<i>Sphagnum</i> sp.	potentially endangered



**Species list 5: Tall herb vegetation at northern forest margin**

Species name	Austrian Red Data Book
<i>Alnus glutinosa</i>	regionally endangered
<i>Alnus glutinosa</i>	regionally endangered
<i>Caltha palustris</i>	regionally endangered
<i>Carex brizoides</i>	
<i>Carex sylvatica</i>	
<i>Chaerophyllum hirsutum</i>	
<i>Crepis paludosa</i>	
<i>Equisetum sylvaticum</i>	
<i>Equisetum telmateia</i>	
<i>Filipendula ulmaria</i>	
<i>Galium palustre</i> agg.	
<i>Lycopus europaeus</i>	
<i>Lysimachia vulgaris</i>	
<i>Myosotis scorpioides</i>	
<i>Ranunculus flammula</i>	potentially endangered
<i>Scirpus sylvaticus</i>	

**Species list 6: Small bog above "Waldhäusl"**

Species name	Austrian Red Data Book
<i>Andromeda polifolia</i>	endangered
<i>Frangula alnus</i>	
<i>Vaccinium oxycoccos</i>	endangered
<i>Anthoxanthum odoratum</i>	
<i>Carex echinata</i>	
<i>Carex panicea</i>	regionally endangered
<i>Dactylorhiza majalis</i>	regionally endangered
<i>Drosera rotundifolia</i>	endangered
<i>Lysimachia vulgaris</i>	
<i>Molinia caerulea</i>	
<i>Potentilla erecta</i>	
<i>Pteridium aquilinum</i>	



Bog dominated by *Pinus mugo*





Open bog with *Eriophorum vaginatum* and invasive *Frangula alnus*



Open bog with small pools