

**P-05-173**

## **Oskarshamn site investigation**

### **Vegetation in lake Frisksjön**

Karin Aquilonius, WSP Environmental

June 2005

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*Keywords:* Fresh water plants, Biomass, Coverage, Distribution.

This report concerns a study which was conducted for SKB. The conclusions and viewpoints presented in the report are those of the author and do not necessarily coincide with those of the client.

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## **Abstract**

An inventory of the vegetation in lake Frisksjön was performed during the “Field week in august 2004,” as a part of the investigations of the surface ecosystems in the site investigation area of Oskarshamn.

The activity comprised qualitative estimations of submerged vegetation, emergent and floating-leaved vegetation i.e a description of species abundance and distribution in lake Frisksjön. Furthermore, a quantitative estimation of the degree of surface cover and the biomass of the identified plants in the lake was made.

# Sammanfattning

Under "Fältveckan" 2004 inventerades Frisksjön med avseende på vegetation av makrofyter. Undersökningen genomfördes inom ramen för SKB:s platsundersökning i Oskarshamn.

Inventeringen omfattade kvalitativa och kvantitativa uppskattningar av de växtarter som förekommer i sjön.

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# 1 Introduction

This document reports the data gained by the inventory of vegetation in lake Frisksjön, which is one of the activities performed within the site investigation at Oskarshamn. The work was carried out in accordance with activity plan AP PS 400-04-085. In Table 1-1 controlling documents for performing this activity are listed. Both activity plan and method descriptions are SKB's internal controlling documents.

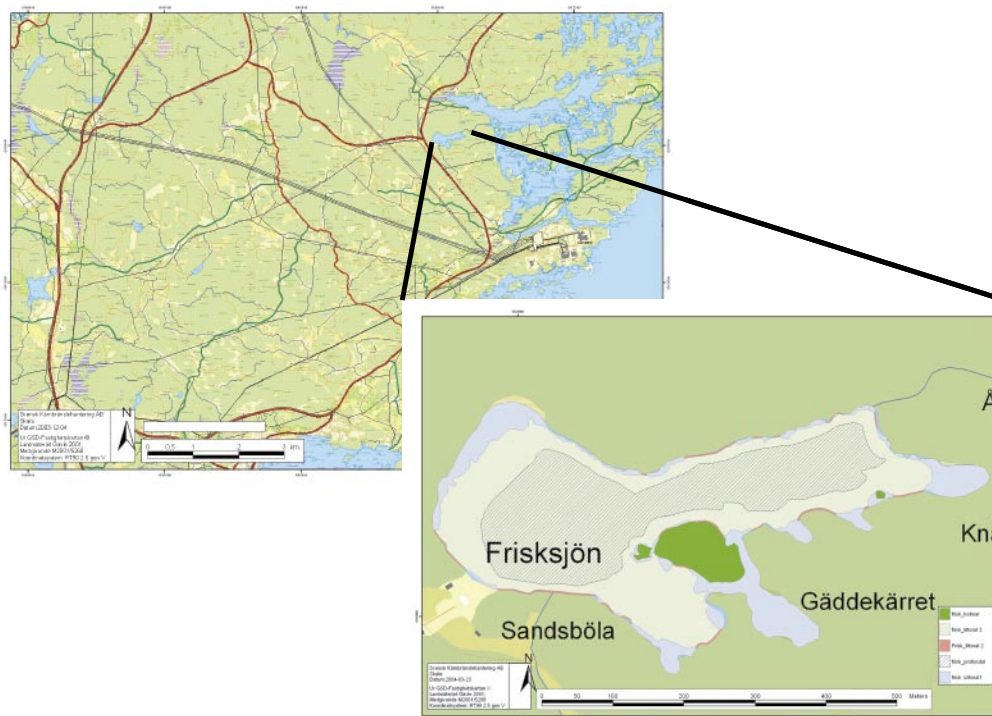
The activity was performed during august 2004, during the "Field week" for investigations of the surface ecosystems in the site investigation area of Oskarshamn.

The activity comprised qualitative estimations of submerged vegetation, emergent and floating-leaved vegetation i.e a description of species abundance and distribution in lake Frisksjön. Furthermore, a quantitative estimation of the degree of surface cover and the biomass of the identified plants in the lake was made.

Lake Frisksjön is situated in the Oskarshamn site investigation area, see Figure 1-1.

**Table 1-1. Controlling documents for the performance of the activity.**

Activity plan	Number	Version
Vegetation in Frisksjön.	AP PS 400 04-085	1.0
Method descriptions	Number	Version
Metodmanual för sjöar och vattendrag.	SKB PIR-04-06	1,0



**Figure 1-1.** Lake Frisksjön in the regional model area for the Oskarshamn site investigations.

## **2 Objective and scope**

The main objective of this activity was to map the distribution of fresh water plants and generate site specific estimates of the species, their abundance and biomass/m<sup>2</sup> and the total fresh water plant biomass in the lake Frisksjön.

### 3 Equipment

The qualitative inventory of fresh water plant in lake Frisksjön was done with visual inspection from a canoe.

The quantitative investigations were made along transects, when possible from a boat with water glasses or else, with diving equipment or with snorkel (see Figure 3-1).

Wooden or steel frames (see Figure 3-2) with 0.5 m or 0.25 m side were used.

Measuring devices for water depth and sight was used as well as GPS for determination of transect coordinates.



*Figure 3-1. One of the marked transects from the shore in lake Frisksjön.*





*Figure 3-2. One of the steel frames for estimations of plant cover.*

## 4 Execution

### 4.1 General

The activity was performed in the beginning of august, when the biomass production has reached its maximum for the season. The methods used in the investigation are from /Huononen R, 2004; NV, 2004/.

#### 4.1.1 Qualitative

The qualitative inventory of the fresh water plants in the lake was performed directly in the field. On a field map the identified species was noted and the cover was estimated on a scale from sparse to very dense. The relevant plant habitat was noted according to three categories;

I = Habitat with emergent and floating-leaved vegetation.

II = Habitat with hard substrate.

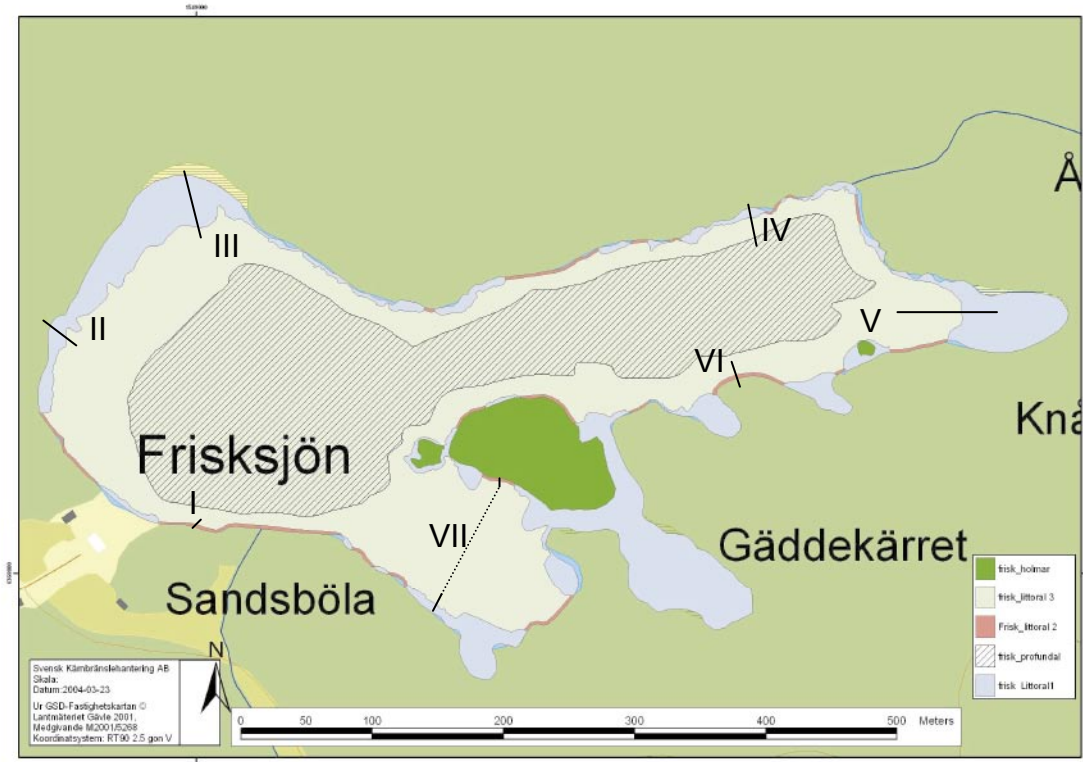
III = Habitat with submerged vegetation (single or few emergent and floating-leaved plants).

The size of the lake area inhabited by the identified freshwater plants was also noted in the field protocol.

#### 4.1.2 Quantitative

A quantitative investigation of vegetation includes estimation of degree of coverage and estimation of biomass. In lake Frisksjön 7 transects were placed on the field map see Figure 4-2. Along these transects the wooden/steel frames were placed once in each 0.5 m depth interval, until the water depth and sight limited plants from growing. The water depths were measured for each frame. In the frames all plant individuals were identified and counted. Samples from each identified plant species were dried and weighed.

From the number of individuals for each plant species and dry weight/plant species the total dry weight in each square were calculated. The calculations were often based on only one weight of each plant species and are therefore to be considered as rough estimates of the total plant weight in each square.



**Figure 4-1.** Lake Frisksjön, with the examined transects. The transect are illustrations and not in the correct scale. The legend is explained in Figure 5-1.

## 4.2 Data handling/post processing

Field data were noted in field protocols. The field protocols for inventory of vegetation are included in Appendix 1.

Data were reported to the SICADA database.

## 4.3 Nonconformities

According to the activity plan four lakes in the site investigation area should have been investigated, but only lake Frisksjön was investigated.

## 5 Results

### 5.1 Qualitative

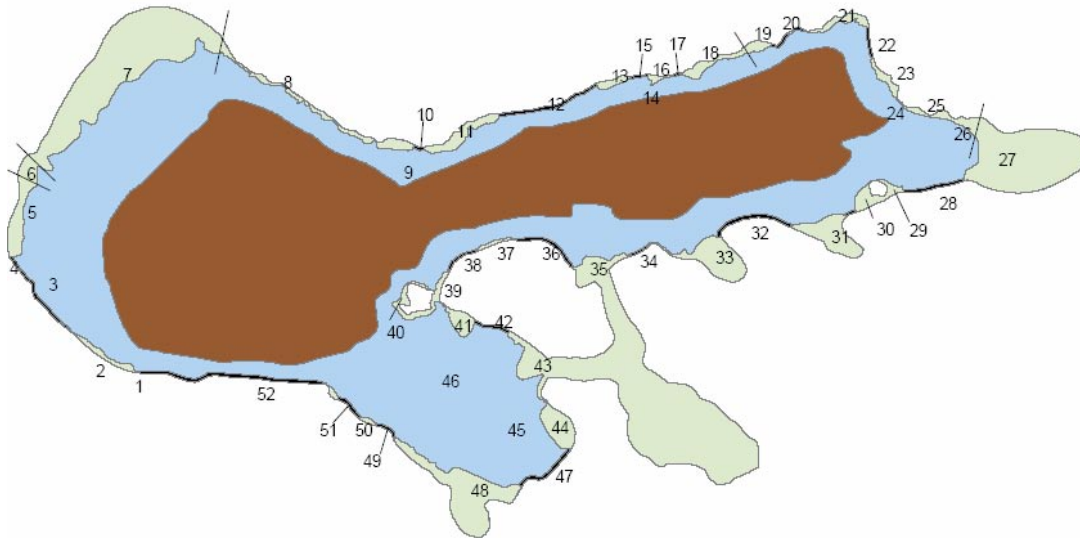
The inventory resulted in a map where identified plants and their location and coverage is noted, see Figure 5-1, in Appendix 1 legend to the map with comments is presented.

In Table 5-1 identified emergent and floating-leaved plants in lake Frisksjön are listed.

**Table 5-1. Emergent and floating-leaved fresh water plants found in the inventory in lake Frisksjön.**

Latin name	Swedish name
<i>Equisetum fluviatile</i>	Sjöfräken
<i>Alisma plantago-aquatica</i>	Svalting
<i>Potamogeton natans</i>	Gäddnate
<i>Iris pseudacorus</i>	Gul svärdsliilja
<i>Juncus conglomeratus</i> alt. <i>J. effusus</i>	Knapptåg alt. Veketåg
<i>Phragmites australis</i>	Bladvass
<i>Sparganium emersum</i>	Vanlig igelknopp
<i>Sparganium angustifolium</i> Michx.	Plattbladig igelknopp
<i>Typha latifolia</i>	Bredkaveldun
<i>Schoenoplectus lacustris</i>	Säv (kolvass)
<i>Carex vesicaria</i>	Blåsstarr
<i>Carex rostrata</i>	Flaskstarr
<i>Carex nigra</i>	Hundstarr
<i>Nymphaea alba</i>	Vit näckros
<i>Nuphar lutea</i>	Gul näckros
<i>Oenanthe aquatica</i>	Vattenstäkra
<i>Lysimachia vulgaris</i>	Videört (strandlysing)
<i>Lysimachia thysiflora</i>	Topplösa
<i>Menyanthes trifoliata</i>	Vattenklöver
<i>Potentilla lacustris</i>	kråklöver
<i>Lythrum salicaria</i>	Fackelblomster

The identified fresh water flora indicates a nutrient rich environment.



**Figure 5-1.** Lake Frisksjön with field notes from the qualitative investigation. Red = profundal, blue = littoral type III, black = littoral type II and green = littoral type I.

## 5.2 Quantitative

The quantitative investigation resulted in estimates of the biomass in the four defined habitats in lake Frisksjön /Brunberg et al, 2004/;

- Littoral type I: wind-sheltered, shallow areas with soft substrate inhabited by emergent and floating –leaved vegetation,
- Littoral type II: wind exposed areas with hard-bottom substrate,
- Littoral type III: in deeper areas of the lake were light is enough to sustain photosynthetic primary production and finally the
- Profundal habitat: were light penetration is less than needed to sustain permanent growth of primary producers, see Table 5-2.

The percentage of different plants species considering number of individual species and weight/species, in the different lake habitats are shown in Table 5-3 and 5-4.

**Table 5-2. Biomass in the different investigated habitats in lake Frisksjön.**

Habitats	Area (m <sup>2</sup> )/Brunberg et al, 2004/	Mean biomass (DW, g/m <sup>2</sup> )
Littoral type I	24,200	26.3
Littoral type II	1,430	5.5
Littoral type III	49,130	6.6
Profundal	52,250	7.4

**Table 5-3. Percentual distribution of individuals of different species in the various habitats in lake Frisksjön.**

<b>Species</b>	<b>Littoral type I</b>	<b>Littoral type II</b>	<b>Littoral type III</b>	<b>Profundal</b>
<i>Typha latifolia</i>	1	0	5	0
<i>Lythrum salicaria</i>	0	7	0	0
Poaceae	2	0	0	0
<i>Nuphar lutea</i> ,	0	0	8	33
<i>Potamogeton natans</i>	0	0	5	0
<i>Potentilla lacustris</i>	1	0	5	0
<i>Epilobium palustre</i>	1	0	0	0
Polypodiace spp.	3	0	0	0
<i>Equisetum fluviatile</i>	1	0	13	0
<i>Carex</i> spp,	42	21	5	0
<i>Schoenoplectus lacustris</i>	1	14	5	0
<i>Phragmites australis</i>	27	25	18	0
<i>Menyanthes trifoliata</i> r	19	25	16	33
<i>Lysimachia vulgaris</i>	1	7	16	33
<i>Sphagnum</i> spp	0	0	0	0

**Table 5-4. Percentual distribution of weight of different species in the various habitats in lake Frisksjön.**

<b>Species</b>	<b>Littoral type I</b>	<b>Littoral type II</b>	<b>Littoral type III</b>	<b>Profundal</b>
<i>Typha latifolia</i>	41	0	54	0
<i>Lythrum salicaria</i>	0	1	0	0
Poaceae	0	0	0	0
<i>Nuphar lutea</i> ,	0	0	30	95
<i>Potamogeton natans</i>	0	0	1	0
<i>Potentilla lacustris</i>	0	0	0	0
<i>Epilobium palustre</i>	0	0	0	0
Polypodiace spp.	0	0	0	0
<i>Equisetum fluviatile</i>	1	0	1	0
<i>Carex</i> spp,	5	5	0	0
<i>Schoenoplectus lacustris</i>	2	16	1	0
<i>Phragmites australis</i>	41	56	9	0
<i>Menyanthes trifoliata</i> r	10	21	3	5
<i>Lysimachia vulgaris</i>	0	1	0	1
<i>Sphagnum</i> spp	0	0	0	0

## References

**NV, 2004.** Naturvårdsverket, 2004, Metodhandbok för miljöövervakning, [www.environ.se](http://www.environ.se)

**Huononen R, 2004.** Metodik för provtagning av ekologiska parametrar i sjöar och vattendrag SKB PIR-04-06.

## Appendix 1

### Field protocols – Qualitative investigations

Legend to map in Figure 5-1.

Vegetationsbeskrivning, Frisksjön. Inventering 2004-08-17.

Anna Brunberg och Björn Söderbäck. Inventering från kanot längs stränderna.

Ev gränser mellan vattenväxter (tex vass/säv) och våtmarksvegetation (tex sälg/al mm) inåt land karterades inte, endast det som var synligt från sjösidan. Detta gäller främst områdena nr 27 och 35/43. I område 7 når våtmarksområdet ända fram till sjön.

Nr	Littoral typ*	Växter	Täthet	Områdets storlek**	Kommentar
1	II	Vattenklöver	tät	4 x 1 m	
2	I	Tät vass längst in, lite säv och gul näckros ut mot sjön	tät	se kartan	en vegetationsfri (rensad) yta framför ett hus i mitten av partiet
3	III	gul näckros		5 x 5 m	några plantor en bit ut i vattnet, f.ö. fastmarksstrand
4	I-II	vass, fräken, vattenklöver, gul näckros, gåddnate	gles		
5	I	vass, vattenklöver	tät		
6	I	vass	tät	10 m längs stranden	innerst
		säv			
		tät			
7	I	vass	tät	vass blandat med bla al	
8	I	vass	tät vass, men ej hög	smal bärd	smal bärd, blandad med stora stenar
9	III	kräklöver, gåddnate			
		vit näckros		5 st à 1m <sup>2</sup>	5 plantor ute i littoral typ III
10	II	-	häll		
11	I	vass	tät vass, men ej hög	smal bärd	smal bärd, blandad med stora stenar
		kräklöver, gåddnate			
12	II	-	brant hög håll		
13	I	vass	tät vass, men ej hög	smal bärd	smal bärd



Nr	Littoral typ*	Växter	Täthet	Områdets storlek**	Kommentar
14	III	kräklöver, gul näckros			
15	II	vit näckros	3 st à 1m <sup>2</sup>	3 plantor ute i littoral typ III	sten
16	I	starr, kräklöver		längst in	sten
17	II				
18	I	starr, kräklöver, iris, igelknopp, gul näckros	gles		
19	I	starr, iris, videört, kräklöver, gul näckros			
20	II	-			sten
21	I	starr, iris, videört, kräklöver			
22	I	-			sten
23	I	vass	gles		
24	III	gul näckros		några plantor	en planta
25	I	vit näckros	tät	1 m <sup>2</sup>	
26		kräklöver	tät	innerst mot stranden	
27	I	gäddnate	tät		
	I	al, vass, starr, fräken, säv	tät		kraftig starr längs vattenlinjen i vissa partier
	I	gäddnate, gul näckros, vit näckros	gles		yfterst i övervattensvegetationen
28	II	starr, videört	gles		utanför säven
29	I	starr	gles		lite, mellan stenar längs stranden
30	I	svalting, kräklöver, lite gul näckros	tät		
31	I	fräken, gul näckros	gles		
32	II	svalting, fackelblomster			
33	I	gäddnate	tät		i strandkanten
34	II				
35	I	gäddnate, gul näckros			sten/häll
	I	al, vass	tät		yfterst
36	II				längre in i "viken"
37	I	kräklöver	tät		sten/fastmarkskant

Nr	Littoral typ*	Växter	Täthet	Områdets storlek**	Kommentar
38	II				sten/fastmarkskant
39	I	vass, säv	tät		
40	I	vass	tät		
41	I	vass, bredkaveldun, starr gäddnate, lite gul näckros	tät tät - gles		kraftig starr
42	II				sten/fastmarkskant
43	I	vass, bredkaveldun, starr al, vass	tät		kraftig starr
44	I	vass, starr	tät		längre in i "viken"
45	III	gul näckros	gles		kraftig starr
46	II	svalting, fräken gäddnate, gul näckros	mkt gles mkt gles		vid stränderna mestadels öppen vattenyta i denna vik häll
47	II				
48	I	vass, starr, säv, vattenklöver gul näckros	tät gles		sten/fastmarkskant
49	II				
50	I	svalting, flaskstarr	tät		sten/fastmarkskant
51	II				sten/fastmarkskant
52	II				sten/fastmarkskant

\* I = The habitat with emergent and floating-leaved vegetation.

II = The habitat with hard substrate.

III = The habitat with submerged vegetation (single or few emergent and floating-leaved plants reported if present in this zone).

\*\* Där ingen storlek anges fyllde vegetationen den del som markerats med habitatgränser på kartan.

## Field protocols – Quantitative investigation

Field protocols from inventory along transects in lake Frisksjön.

### Vattenvegetationskartering i Frisksjön, 2004-08-16- 2004-08-18.

Transekt nr	X-koordinat	Y-koordinat	Datum	Provtagare	Kommentarer
I	1548986	6368031	20040818	Kaq, JJ, SK	23 m osäk, vinkelrätt mot strandkanten
Ruta	1	2	3	4	
djup, cm	3,2	70	104	175	0,25
avstånd från 0-pkt, m	0	2	3,5	4,5	
Växtart					
vattenklöver	6	5	1	1	
videört		3	1	1	

Transekt nr	X-koordinat	Y-koordinat	Datum	Provtagare	Kommentarer
II	1548914	6368241	20040818	Kaq, JJ, SK	6 m osäk, 290 grader
Ruta	1	2	3	4	5
djup, cm	15	60	130	175	145
avstånd från 0-pkt, m	0	3,5	11	27	20?
Växtart					
kaveldun	1		1	1	
vass	11		1	1	5*
kräklöver	1		1	1	* 1-1,5 m långa strån
flaskstarr	30	9	1	1	
videört	1		1	1	

Transekt nr	X-koordinat	Y-koordinat	Datum	Provtagare	Kommentarer
III	1548988	6368281	20040818	Kaq, JJ, SK	7 m osäk, 29 m lång transekt
Ruta	1**	2	3	4	5 6
djup, cm	0	0,8	1,2	1,95	2,1 2,45
avstånd från 0-pkt, m	0	2	3	11,5	25,5 50
Växtart					
kräklöver	3				0,25m-rutan
vitmossa					0,25m-rutan, täcker hela rutan
vass	32*				* ca 2 m långa strån
ormbunkar	5				
okänd	1				
kärrdunört?	1				
gräs	3				
okänd 2 (ev vattenmynta)	1				
gul näckros				1	1

Transekt nr	x-koordinat	y-koordinat	Datum	Provtagare	Kommentarer
IV	1549404	6368279	20040818	Kaq, JJ, SK	7 m osäk, uppskattad transektlängd 10 m (bojkoordinater: 1549410, 6368263), 340 grader, siktdjup 1m
Ruta	1	2	3	4	5 6
djup, cm	0				
avstånd från 0-pkt, m	30				
Växtart					
vattenklöver	4				
Carex av ngt slag	15				

Transekt nr	X-koordinat	Y-koordinat	Datum	Provtagare	Kommentarer
V	1549597	6368194	20040818	Bso	5 m osäk, 50 m lång transekt ("ytterkoordinater": 1549551, 6368201), 120 grader
Ruta	1	2	3	4	5 6
djup, cm	48	93	125	175	205
avstånd från 0-pkt, m	4,5	12*	15*	20	40
Växtart					* uppskattade värden
vattenklöver	27				
bredkaveldun	1				
sjöfräken	2	3			
säv	2	2	9*		
Carex sp	1				
gul näckros			1	1	
gäddnate			2		
mossa?		1			

Transekt nr	X-koordinat	Y-koordinat	Datum	Provtagare	Kommentarer
VI	1549421	6368147	20040818	Kaq, JJ, SK	10 m osäk
Ruta	1	2	3	4	5 6
djup, cm	0,25	0,75	1,3		
avstånd från 0-pkt, m	0	2	2,75		
Växtart					
Carex rostrata (flask starr)	5				
Vattenköver	1				
Videört	2				
Stamn	Ruta	Datum	DW (g)	Notering	
T6	1	2004-08-18	3,445		
T6	1	2004-08-18	2,445		

Transekt nr	X-koordinat	Y-koordinat	datum	provtagare	kommentarer					
VII	1549158	6367973	20040818	Kaq, J.J, SK	14 m osäk, 220 grader mot strandkanten					
Ruta	1	2	3	4	5	6	7	8	9	10
djup, cm	0,3	0,75	1,4	2				1,25	0,75	0,25
avstånd från 0-pkt, m	0	1,32	4,5	2,25				4,5	1	0
Växtart										
Carex	12									
Sjöfräken		2								
Fackelblomster										2
Vass									1	6
Säv									3	1
Starr									1	

## Appendix 3

### Calculated weights

Calculated weights, in g and in percent, of the different squares, transects and habitats.

Ruta	Transekt nr	Djup (m)	Zon	DW g/m <sup>2</sup> (totalt/ruta)	Bred- kaveldun	Fackel- blomster	Gräs	Gul Näckros	Gädd- nate	Kräk- klöver	Kärr- dunört	Orm- bunkar	Sjö- fräken	Starr spp	Säv	Vass	Vatten- klöver	Vide- ört	Vit- mossa	totalt
1	II	0,15	Littoral I	57,8	138,6				0,3					14,9		71,3		0,4		
2	II	0,6	Littoral I	1,6										4,5						
1	III	0	Littoral I	53,5			0,6			0,4	3,2					207,5	0,2	0,4		
1	IV	0	Littoral I	5,0	138,6								1,7	4,3	6,3		66,0			
2	IV		Littoral I	0,0									2,6		6,3					2,4
1	V	0,48	Littoral I	53,3											6,3					
1	VII	0,3	Littoral I	12,8										8,3						
			<b>Summa (g)</b>		<b>277,3</b>	<b>0,0</b>	<b>0,6</b>	<b>0,0</b>	<b>0,0</b>	<b>0,3</b>	<b>0,4</b>	<b>3,2</b>	<b>4,3</b>	<b>31,8</b>	<b>12,6</b>	<b>278,8</b>	<b>66,2</b>	<b>0,8</b>	<b>2,4</b>	<b>678,8</b>
			<b>% vikt</b>		<b>40,9</b>	<b>0,0</b>	<b>0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,1</b>	<b>0,5</b>	<b>0,6</b>	<b>4,7</b>	<b>1,9</b>	<b>41,1</b>	<b>9,8</b>	<b>0,1</b>	<b>0,0</b>	
1	I	0,032	Littoral II	3,7																
1	VI	0,25	Littoral II	1,7													2,4	0,8		
9	VII	0,75	Littoral II	5,0										0,7	9,4	6,5				
10	VII	0,25	Littoral II	11,5		0,7									3,1	38,9				
			<b>Summa (g)</b>		<b>0,0</b>	<b>0,7</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>4,1</b>	<b>12,6</b>	<b>45,4</b>	<b>17,1</b>	<b>0,8</b>	<b>0,0</b>	<b>80,7</b>
			<b>% vikt</b>		<b>0,0</b>	<b>0,9</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>5,1</b>	<b>15,6</b>	<b>56,2</b>	<b>21,2</b>	<b>1,0</b>	<b>0,0</b>	<b>100,0</b>
2	I	0,7	Littoral III	3,3																
3	I	1,04	Littoral III	0,7																
3	II	1,3	Littoral III	36,6	138,6					0,3				0,5		6,5		0,4		
4	II	1,75	Littoral III	36,6	138,6					0,3				0,5		6,5		0,4		
5	II	1,45	Littoral III	8,1																
2	III	0,8	Littoral III	0,0																
3	III	1,2	Littoral III	0,0																
4	III	1,95	Littoral III	51,1																51,1

Ruta nr	Transekt nr	Djup (m)	Zon	DW g/m <sup>2</sup> (totalt/ruta)	Bred- kaveldun	Fackel- blomster	Gräs	Gul Näckros	Gädd- nate	Kräk- klöver	Kärr- dunört	Orm- bunkar	Sjö- fräken	Starr spp	Säv	Vass	Vatten- klöver	Vide- ört	Vit- mossa	totalt
3	IV		Littoral III	0,0																
4	IV		Littoral III	0,0																
5	IV		Littoral III	0,0																
6	IV		Littoral III	0,0																
2	V	0,93	Littoral III	2,8									2,4		6,3				2,4	
3	V	1,25	Littoral III	13,5				51,1	2,7											
4	V	1,75	Littoral III	12,8				51,1												
2	VI	0,75	Littoral III	0,0																
3	VI	1,3	Littoral III	0,0																
4	VI	>1,3	Littoral III	0,0																
2	VII	0,75	Littoral III	0,4									1,6							
3	VII	1,4	Littoral III	0,0																
4	VII	2	Littoral III	0,0																
5	VII		Littoral III	0,0																
6	VII		Littoral III	0,0																
7	VII		Littoral III	0,0																
8	VII	1,25	Littoral III	0,0																
			<b>Summa (g)</b>		<b>277,3</b>	<b>0,0</b>	<b>0,0</b>	<b>153,4</b>	<b>2,7</b>	<b>0,6</b>	<b>0,0</b>	<b>0,0</b>	<b>4,0</b>	<b>1,0</b>	<b>6,3</b>	<b>45,4</b>	<b>14,7</b>	<b>2,3</b>	<b>2,4</b>	<b>510,2</b>
			<b>% vikt</b>		<b>54,4</b>	<b>0,0</b>	<b>0,0</b>	<b>30,1</b>	<b>0,5</b>	<b>0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,8</b>	<b>0,2</b>	<b>1,2</b>	<b>8,9</b>	<b>2,9</b>	<b>0,5</b>	<b>0,0</b>	
4	I	1,75	Profundal	0,7													2,4	0,4		
5	III	2,1	Profundal	51,1				51,1												
6	III	2,45	Profundal	0,0																
5	V	2,05	Profundal	0,0																
6	V	>2,05	Profundal	0,0																
5	VI	>2	Profundal	0,0																
6	VI	>2	Profundal	0,0																
			<b>Summa (g)</b>		<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>51,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>2,4</b>	<b>0,4</b>	<b>0,0</b>	<b>54,0</b>
			<b>% vikt</b>		<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>94,7</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>4,5</b>	<b>0,7</b>	<b>0,0</b>	