



# Norwegian State Pollution Monitoring Programme

## Report 599/95

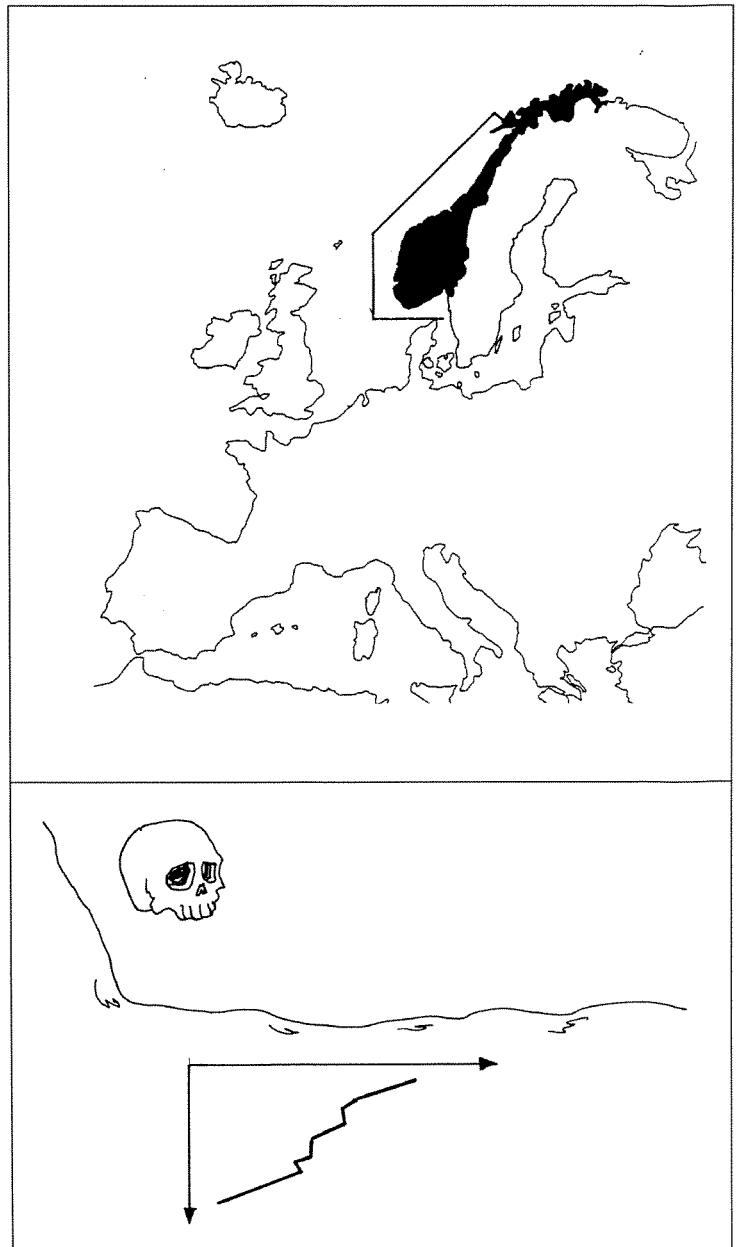
Client State Pollution Control Authority

Contractor NIVA

## Contaminants in sediment 1986-92

The Joint Monitoring  
Programme (JMP)

Norwegian data  
NIVA samples



# NIVA - REPORT

Norwegian Institute for Water Research  NIVA

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Abstract: The report is a compilation of data used in the Norwegian contribution to the Joint Monitoring Programme and the North Sea Task Force Master Monitoring Plan for monitoring of contaminants (mainly: selected metals, organochlorines, polycyclic aromatic hydrocarbons) in sea bed sediment collected 1986-92. The samples were collected by gravity corers and along the coast from Oslofjord to Lofoten. The raw data and the mean and standard deviation of parallel samples are presented.
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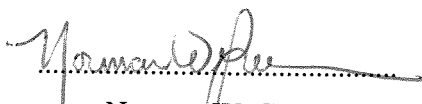
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Project manager

  
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For the Administration

  
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## **Contaminants in sediment 1986-92**

**JOINT MONITORING PROGRAMME (JMP)  
NORWEGIAN DATA  
NIVA SAMPLES**

Oslo, 31. January 1994

Project manager: Norman W. Green

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## Preface

*This report presents a summary of the Norwegian data for contaminants in sediments 1986-1992 sampled by the Norwegian Institute for Water Research (NIVA) and compiled for the Joint Monitoring Programme (JMP). JMP is administered by the Oslo and Paris Commissions (OSPARCOM) under the guidance of the International Council for the Exploration of the Seas (ICES). The programme is implemented by participating members comprising the Joint Monitoring Group (JMG).*

*The Norwegian JMP was primarily carried out by the NIVA by contract from the Norwegian State Pollution Control Authority (SFT) (NIVA contract 80106). Other participating institutes have been:*

*Institute for Nutrition, Fisheries Directorate*

*Institute of Marine Research (IMR)*

*Nordic Analytical Center*

*Swedish Environmental Research Institute*

*Norwegian Veterinary Institute*

*Foundation for Scientific and Industrial Research at the Norwegian Institute of Technology - SINTEF (a division thereof, previously: Center for Industrial Research SI)*

*The Norwegian contribution to the JMP was initiated by SFT in 1981 as part of the national monitoring programme. It now comprises three areas: the Oslofjord and adjacent areas (Hvaler-Singlefjord area and Langesundfjord, 1981-), Sørffjord Hardangerfjord (1983-84, 1987-) and Orkdalsfjord area (1984-89, 1991).*

*Since the North Sea Task Force Monitoring Master Plan (NSTF-MMP) was implemented in 1990 additional areas have also been monitored. These include: Arendal area, Lista area and Bømlo-Sotra area. On the initiative of NIVA and SFT blue mussel and fish were sampled at selected sites in merely diffusely contaminated areas (reference stations) from Bergen to Lofoten in 1991 and 1992.*

*Thanks are due to my colleagues at NIVA and the above mentioned institutes for helping to compile this data. These have been credited through the years in the National Comments. I am especially grateful to Audun Rønningen who has been responsible for the computer programs necessary to create the tables presented in this report.*

*The Norwegian 1990 investigations on sediments for the NSTF-MMP and the JMP were carried out by the Institute of Marine Research (IMR referred to herein as ICES code IMRN) and the Norwegian Institute for Water Research (NIVA) and has been reported separately (Green & Klungsøyr, 1994). This investigation was funded by the Department of Fisheries and by the Norwegian State Pollution Control Authority. For the sake of simplicity "NIVA" stations sampled in 1990 are also included in this report.*

*It is with appreciation that the following are recognized for their contribution to this report:*

*NIVA*

- *Collection of samples: Unni Efriamsen, Frank Kjellberg and Roger Konieczny*
- *Metal analyses: Marit Villø and her colleagues*
- *Data entry: Marit Mjelde and Tone Jøran Oredalen*
- *Programming: Audun Rønningen and Gunnar Severinsen*

*IMRN*

- *Collection of samples: Kjell Westrheim and Svein Wilhelmsen*
- *Organic analyses: Kjell Westrheim and Svein Wilhelmsen*

*Other institutes*

- *Sediment age determinations: Anders Jensen (FORCE institutes, DK)*
- *Arsenic analyses: Kåre Helge Karstensen (SINTEF-SI, Oslo)*

*Oslo, 31. January 1995.*

*Norman W. Green  
Project coordinator*

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# 1. Background and aims

The 1982-92 data for contaminants in sediment was compiled as part of the Norwegian contribution to the Joint Monitoring Programme (JMP) and the North Sea Task Force Monitoring Master Plan (NSTF-MMP) for the years 1990-91.

The JMP is performed as part of the Oslo and Paris Commissions (OSPARCOM). OSPARCOM was established in the seventies with the aim to protect the marine environment against anthropogenic contamination. The Oslo commission focuses on problems relating to dumping at sea in the northeast Atlantic and Baltic areas. Whereas the responsibility of the Paris commission is discharges from land based sources. Together, the commissions govern the "Joint Monitoring Group" (JMG) with the "International Council for the Exploration of the Sea" (ICES) as scientific adviser. Norway and other European countries, which are members of OSPARCOM have the following aims outlined in the "Joint Monitoring Program" (JMP) (OSPARCOM, 1990):

- 1) Assess the state of contamination,
- 2) Indicate possible remedial action.

The NSTF was established in 1989 by the countries bordering the North Sea. The NSTF aim is (NSTF, 1990):

*To carry out work leading, in a reasonable time-scale, to a dependable and comprehensive statement of circulation patterns, inputs and dispersion of contaminants, ecological conditions and effects of human activities in the North Sea.."*

Norway has designated three JMP areas: Oslofjord-area (including the Hvaler area, Singlefjord and Langesundsfjord), Sørfjord/Hardangerfjord and the Orkdalsfjord area and during 1990-92 have also included Arendal and Lista and selected stretches of coastline between Bergen and Lofoten (Fig.1 - 3). The sediment results have been presented for 1986 (Green, 1987) and 1990 (Green & Klungsøyr, 1994).

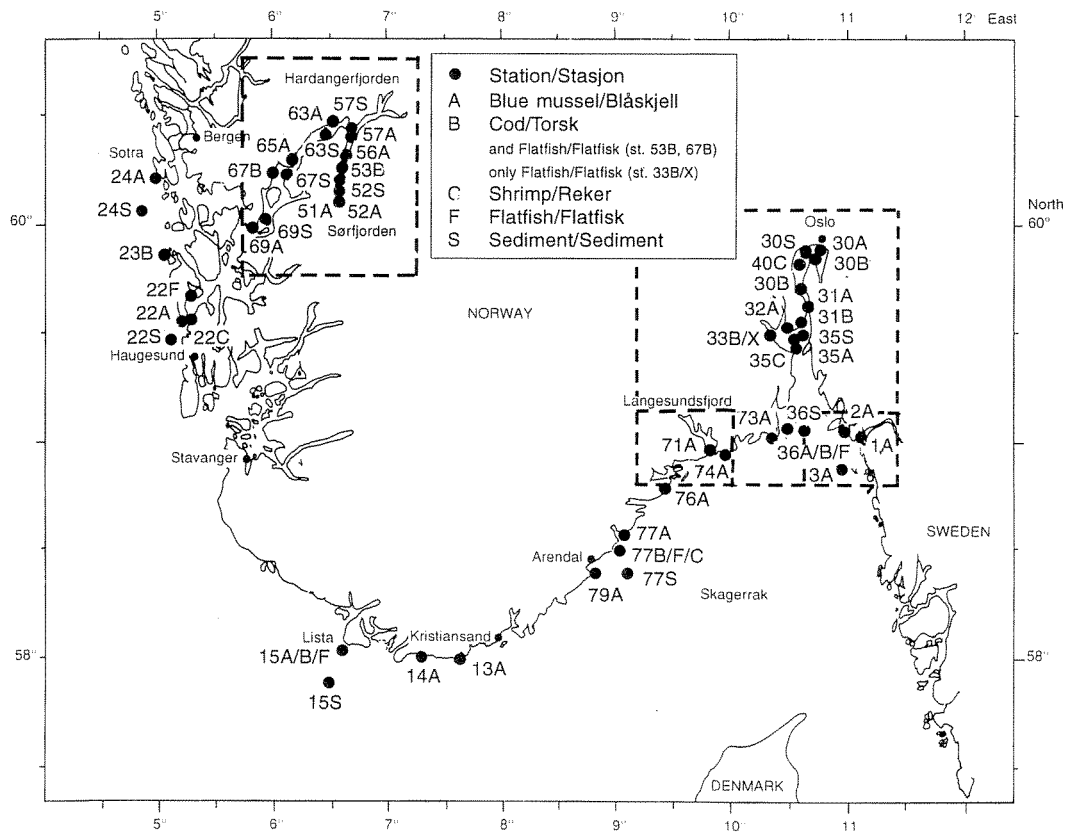
## 2. Sampling

The JMP sediment stations monitored in 1986-92 by Norway are spread from the Oslofjord to Lofoten (Fig.1 - 3).

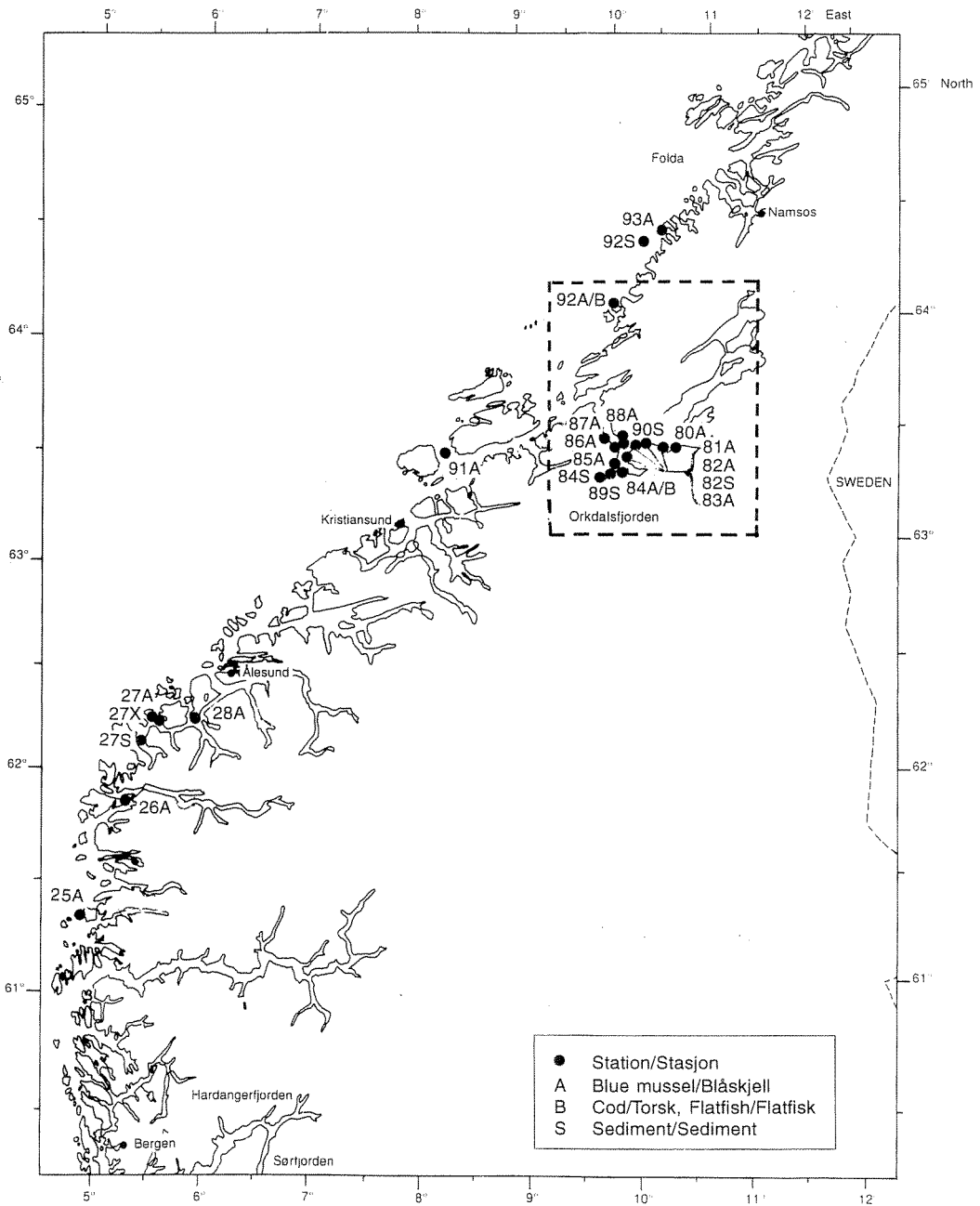
The sampling of sediment has followed the ICES guidelines (ICES 1986, 1992) as closely as possible. Sampling is done with a gravity corer. The cores were sliced, each slice was 1cm thick, less frequently 2 and 5cm. Parallel cores were taken at each station.

All analyses were carried out by NIVA except for analyses of PCB and PAH in 1990 which were carried out by Institute for Marine Research in Bergen and core dating which was analyzed by Water Quality Institute (previously part of FORCE institutes) in Denmark.

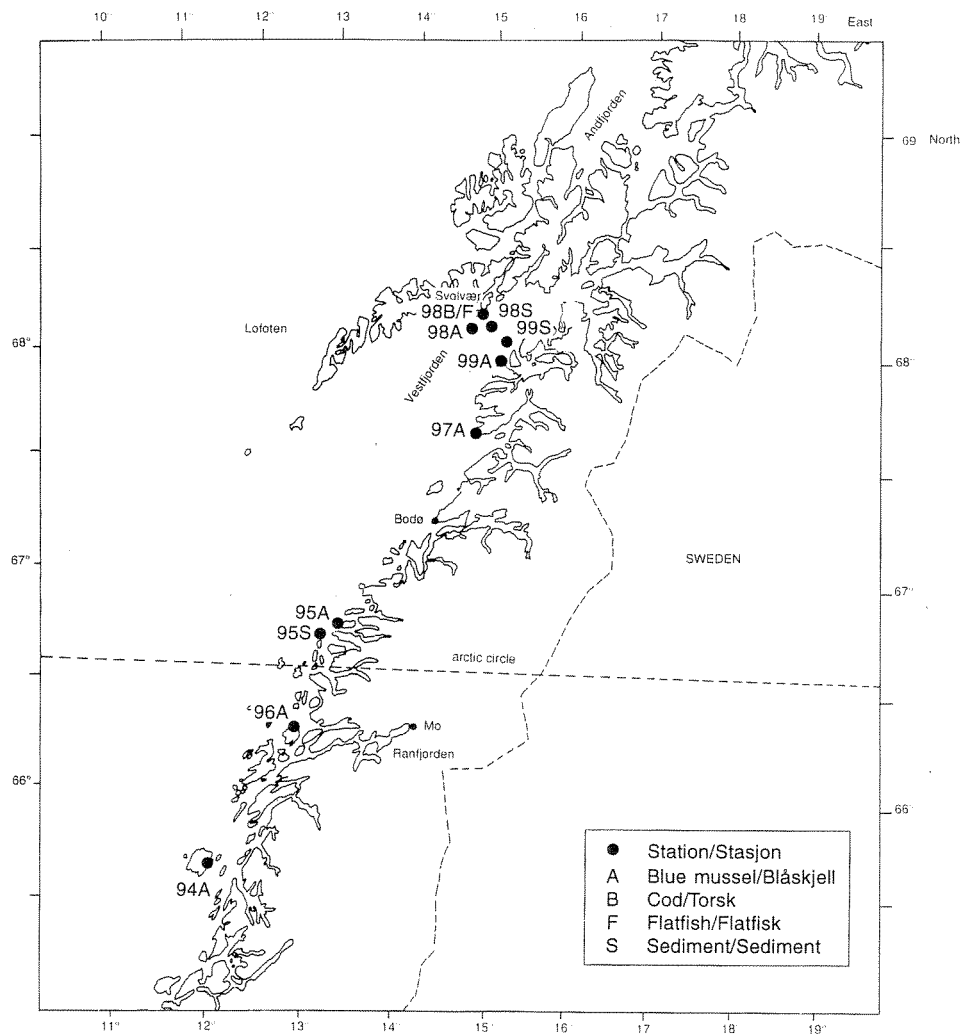




**Figur 1.** JMP sampling stations along the southern coast of Norway from the Swedish border to Bergen.



**Figur 2.** JMP sampling stations along the western coast of Norway from Bergen to Namsos.



**Figur 3.** JMP sampling stations along the northwest coast of Norway from the region of Ranfjorden to Lofoten.

### 3. Analyses

JMG (OSPARCOM 1990) agreed that the concentration of at least cadmium, copper, mercury, lead, zinc and polychlorinated hydrocarbons should be monitored in biota. In these investigations many other contaminants have also been quantified. A complete list of variables used is given in section 4. An overview of the contaminants and associated analytical methods has been given by Green (1993).

Recently JMG has preferred that **seven individual isomers of PCB** be quantified (Table 1) which provided a far better basis for assessing trends and gradients of PCB; besides easing comparison of the results from one country to another. In addition, it was favourable and practical to quantify **SumDDE+DDT**, **HCB**, and the remaining **HCH-isomers** in connection with the analysis of chlorinated compounds. In some cases (analyses at NIVA) it was also convenient to include determinations of pentachlorobenzene(**5-CB**), octachlorostyrene (**OCS**), **CB-156** (2 3 4 5- 3'4'), **CB-209** (2 3 4 5 6 - 2'3'4'5'6) and **CB-105** (2 3 4 - 3'4').

**Tabell 1.** Suggested PCB-isomers which were quantified in sediment (ICES, 1986).

<b>IUPAC/CB no.</b>	<b>Structure</b>
<b>28</b>	2 4 - 4'
<b>52</b>	2 5 - 2'5'
<b>101</b>	2 4 5 - 2'5'
<b>118</b>	2 4 5 - 3'4'
<b>138</b>	2 3 4 - 2'4'5'
<b>153</b>	2 4 5 - 2'4'5'
<b>180</b>	2 3 4 5 - 2'4'5'

## 4. Variables

List of determinands in the Norwegian JMP database (Green, 1993). Codes are derived by ICES (1992). Only a selection of codes are used in Annexes A - B

Abbreviation <sup>1</sup>	English	Norwegian
<b>ELEMENTS</b>		
<b>Al</b>	aluminium	<i>aluminium</i>
<b>As</b>	arsenic	<i>arsenikk</i>
<b>Cd</b>	cadmium	<i>kadmium</i>
<b>Co</b>	cobalt	<i>kobolt</i>
<b>Cr</b>	chromium	<i>krom</i>
<b>Cu</b>	copper	<i>kobber</i>
<b>Fe</b>	iron	<i>jern</i>
<b>Hg</b>	mercury	<i>kvikksølv</i>
<b>Li</b>	lithium	<i>litium</i>
<b>Mn</b>	manganese	<i>mangan</i>
<b>Ni</b>	nickel	<i>nikkel</i>
<b>Pb</b>	lead	<i>bly</i>
<b>Pb210</b>	lead-210	<i>bly-210</i>
<b>Se</b>	selenium	<i>selen</i>
<b>Ti</b>	titanium	<i>titan</i>
<b>Zn</b>	zinc	<i>sink</i>
<b>PAHs</b>		
<b>PAH</b>	polycyclic aromatic hydrocarbons	<i>polysykliske aromatiske hydrokarboner</i>
<b>ACNE</b>	acenaphthene	<i>acenaften</i>
<b>ACNLE</b>	acenaphthylene	<i>acenaftülen</i>
<b>ANT</b>	anthracene	<i>antracen</i>
<b>BAA</b> <sup>3</sup>	benz(a)anthracene	<i>benz(a)antracen</i>
<b>BAP</b> <sup>3</sup>	benzo(a)pyrene	<i>benzo(a)pyren</i>
<b>BBF</b> <sup>3</sup>	benzo(b)fluoranthene	<i>benzo(b)fluoranten</i>
<b>BBKF</b>	benzo(b+k)fluoranthene	<i>benzo(b+k)fluoranten</i>
<b>BEP</b>	benzo(e)pyrene	<i>benzo(e)pyren</i>
<b>BGHIP</b>	benzo(ghi)perylene	<i>benzo(ghi)perylen</i>
<b>BIPN</b> <sup>2</sup>	biphenyl	<i>bifenyl</i>
<b>BJKF</b> <sup>3</sup>	benzo(j,k)fluoranthene	<i>benzo(j,k)fluoranten</i>
<b>CHR</b>	chrysene	<i>chrysen</i>
<b>COR</b>	coronene	<i>coronen</i>
<b>DBAHA</b> <sup>3</sup>	(see DBA3A)	<i>(se DBA3A)</i>
<b>DBA3A</b> <sup>3</sup>	dibenz(a,c/a,h)anthracene	<i>dibenz(a,c/a,h)antracen</i>
<b>DBP</b>	dibenzopyrener	<i>dibenzopyren</i>
<b>DBT</b>	dibenzothiophene	<i>dibenzotiofen</i>
<b>DBTC1</b>	C <sub>1</sub> -dibenzothiophenes	<i>C<sub>1</sub>-dibenzotiofen</i>
<b>DBTC2</b>	C <sub>2</sub> -dibenzothiophenes	<i>C<sub>2</sub>-dibenzotiofen</i>

## Abbreviations (cont'd.)

Abbreviation <sup>1</sup>	English	Norwegian
<b>PAHs (cont.)</b>		
<b>DBTC3</b>	C <sub>3</sub> -dibenzothiophenes	<i>C<sub>3</sub>-dibenzotiofen</i>
<b>FLE</b>	fluorene	<i>fluoren</i>
<b>FLU</b>	fluoranthene	<i>fluoranten</i>
<b>ICDP</b> <sup>3</sup>	indeno(1,2,3-cd)pyrene	<i>indeno(1,2,3-cd)pyren</i>
<b>NAPTM</b> <sup>2</sup>	2,3,5-trimethylnaphthalene	<i>2,3,5-trimetylnaftalen</i>
<b>NAP</b> <sup>2</sup>	naphthalene	<i>naftalen</i>
<b>NAP1M</b> <sup>2</sup>	1-methylnaphthalene	<i>1-metylnaftalen</i>
<b>NAP2M</b> <sup>2</sup>	2-methylnaphthalene	<i>2-metylnaftalen</i>
<b>NAPC1</b> <sup>2</sup>	C <sub>1</sub> -naphthalenes	<i>C<sub>1</sub>-naftalen</i>
<b>NAPC2</b> <sup>2</sup>	C <sub>2</sub> -naphthalenes	<i>C<sub>2</sub>-naftalen</i>
<b>NAPC3</b> <sup>2</sup>	C <sub>3</sub> -naphthalenes	<i>C<sub>3</sub>-naftalen</i>
<b>NAPDI</b> <sup>2</sup>	2,6-dimethylnaphthalene	<i>2,6-dimetylnaftalen</i>
<b>PA</b>	phenanthrene	<i>fenantren</i>
<b>PAC1</b>	C <sub>1</sub> -phenanthrenes	<i>C<sub>1</sub>-fenantren</i>
<b>PAC2</b>	C <sub>2</sub> -phenanthrenes	<i>C<sub>2</sub>-fenantren</i>
<b>PAM1</b>	1-methylphenanthrene	<i>1-metylfenantren</i>
<b>PER</b>	perylene	<i>perylen</i>
<b>PYR</b>	pyrene	<i>pyren</i>
<b>DI-Σn</b>	sum of "n" dicyclic "PAH"s (footnote 2)	<i>sum "n" disykliske "PAH" (fotnote 2)</i>
<b>P-Σn</b>	sum "n" PAH	<i>sum "n" PAH</i>
<b>PK-Σn</b>	sum carcinogen PAH's (footnote 3)	<i>sum kreftfremkallende PAH (fotnote 3)</i>
<b>PAHΣΣ</b>	DI-Σn + P-Σn etc.	<i>DI-Σ n + P-Σ n mm..</i>
<b>SPAΗ</b>	"total" PAH, specific compounds not quantified (outdated analytical method)	<i>"total" PAH, spesifik forbindelser ikke kvantifisert (foreldret metode)</i>
<b>PCBs</b>		
<b>PCB</b>	polychlorinated biphenyls	<i>polyklorerte bifenyler</i>
<b>CB</b>	individual chlorobiphenyls (CB)	<i>enkelte klorobifenyl</i>
<b>CB28</b>	CB28 (IUPAC)	<i>CB28 (IUPAC)</i>
<b>CB31</b>	CB31 (IUPAC)	<i>CB31 (IUPAC)</i>
<b>CB44</b>	CB44 (IUPAC)	<i>CB44 (IUPAC)</i>
<b>CB52</b>	CB52 (IUPAC)	<i>CB52 (IUPAC)</i>
<b>CB95</b>	CB95 (IUPAC)	<i>CB95 (IUPAC)</i>
<b>CB101</b>	CB101 (IUPAC)	<i>CB101 (IUPAC)</i>
<b>CB105</b>	CB105 (IUPAC)	<i>CB105 (IUPAC)</i>
<b>CB110</b>	CB110 (IUPAC)	<i>CB110 (IUPAC)</i>
<b>CB118</b>	CB118 (IUPAC)	<i>CB118 (IUPAC)</i>
<b>CB128</b>	CB128 (IUPAC)	<i>CB128 (IUPAC)</i>
<b>CB138</b>	CB138 (IUPAC)	<i>CB138 (IUPAC)</i>

## Abbreviations (cont'd.)

Abbreviation <sup>1</sup>	English	Norwegian
<b>PCBs (cont.)</b>		
<b>CB149</b>	CB149 (IUPAC)	<i>CB149 (IUPAC)</i>
<b>CB153</b>	CB153 (IUPAC)	<i>CB153 (IUPAC)</i>
<b>CB156</b>	CB156 (IUPAC)	<i>CB156 (IUPAC)</i>
<b>CB170</b>	CB170 (IUPAC)	<i>CB170 (IUPAC)</i>
<b>CB180</b>	CB180 (IUPAC)	<i>CB180 (IUPAC)</i>
<b>CB194</b>	CB194 (IUPAC)	<i>CB194 (IUPAC)</i>
<b>CB209</b>	CB209 (IUPAC)	<i>CB209 (IUPAC)</i>
<b>CB-Σ7</b>	CB: 28+52+101+118+138+153+180	<i>CB: 28+52+101+118+138+153+180</i>
<b>CB-ΣΣ</b>	sum of CBs, includes CB-Σ7	<i>sum CBer, inkluderer CB-Σ 7</i>
<b>ALD</b>	aldrin	<i>aldrin</i>
<b>DIELD</b>	dieldrin	<i>dieldrin</i>
<b>ENDA</b>	endrin	<i>endrin</i>
<b>CCDAN</b>	cis-chlordane (=α-chlordane)	<i>cis-chlordan (=α -chlordan)</i>
<b>TCDAN</b>	trans-chlordane (=γ-chlordane)	<i>trans-chlordan (=γ -chlordan)</i>
<b>OCDAN</b>	oxy-chlordane	<i>oxy-chlordan</i>
<b>TNONC</b>	trans-nonachlor	<i>trans-nonaklor</i>
<b>TCDAN</b>	trans-chlordane	<i>trans-chlordan</i>
<b>OCS</b>	octachlorostyrene	<i>octaklorstyren</i>
<b>QCB</b>	pentachlorobenzene	<i>pentaklorbenzen</i>
<b>DDD</b>	dichlorodipenyldichloroethane 1,1-dichloro-2,2-bis- (4-chlorophenyl)ethane	<i>diklordifenyldikloretan</i> <i>1,1-dikloro-2,2-bis-(4-klorofenyl)etan</i>
<b>DDE</b>	dichlorodiphenylethylene (principle metabolite of DDT) 1,1-dichloro-2,2-bis- (4-chlorophenyl)ethylene*	<i>diklordifenyletylen</i> <i>(hovedmetabolitt av DDT)</i> <i>1,1-dikloro-2,2-bis-</i> <i>(4-klorofenyl)etylen</i>
<b>DDT</b>	dichlorodiphenyltrichloroethane 1,1,1-trichloro-2,2-bis- (4-chlorophenyl)ethane	<i>diklordifenyiltrikloretan</i> <i>1,1,1-trikloro-2,2-bis-(4-klorofenyl)etan</i>
<b>DDEOP</b>	o,p'-DDE	<i>o,p'-DDE</i>
<b>DDEPP</b>	p,p'-DDE	<i>p,p'-DDE</i>
<b>DDTOP</b>	o,p'-DDT	<i>o,p'-DDT</i>
<b>DDTPP</b>	p,p'-DDT	<i>p,p'-DDT</i>
<b>TDEOP</b>	o,p'-DDD	<i>o,p'-DDD</i>
<b>TDEPP</b>	p,p'-DDD	<i>p,p'-DDD</i>

## Abbreviations (cont'd.)

Abbreviation <sup>1</sup>	English	Norwegian
<b>DDTEP</b>	p,p'-DDE + p,p'-DDT	<i>p,p'-DDE + p,p'-DDT</i>
<b>DD-nΣ</b>	sum of DDT and metabolites, n = number of compounds	<i>sum DDT og metaboliter, n = antall forbindelser</i>
<b>HCB</b>	hexachlorobenzene	<i>heksaklorbenzen</i>
<b>HCHG</b>	lindane γ HCH = gamma hexachlorocyclohexane (γ BHC = gamma benzenhexachloride, outdated synonym)	<i>lindan γHCH = gamma heksaklorsyκλοheksan (γBHC = gamma benzenheksaklorid, foreldret navn)</i>
<b>HCHA</b>	α HCH = alpha HCH	<i>αHCH = alpha HCH</i>
<b>HCHB</b>	β HCH = beta HCH	<i>βHCH = beta HCH</i>
<b>HC-nΣ</b>	sum of HCHs, n = count	<i>sum av HCHs, n = antall</i>
<b>EOCI</b>	extractable organically bound chlorine	<i>ekstraherbart organisk bundet klor</i>
<b>EPOCI</b>	extractable persistent organically bound chlorine	<i>ekstraherbart persistent organisk bundet klor</i>
<b>NTOT</b>	total organic nitrogen	<i>total organisk nitrogen</i>
<b>CORG</b>	organic carbon	<i>organisk karbon</i>
<b>GSAMT</b>	grain size	<i>kornfordeling</i>
<b>MOCON</b>	moisture content	<i>vanninnhold</i>

- 1) After: ICES Environmental Data Reporting Formats. International Council for the Exploration of the Sea. January 1992.
  - 2) Indicates "PAH" compounds that are dicyclic and not truly PAH's typically identified during the analyses of PAH, include naphthalenes and "biphenyls".
  - 3) Indicates PAH compounds potentially cancerogenic for humans according to IARC (1987), i.e., categories 2A+2B (possibly and probably carcinogenic).
- \*) The Pesticide Index, second edition. The Royal Society of Chemistry, 1991.



## 5. Analytical laboratories

The analytical laboratories involved in the 1986-92 sediment survey are listed below (ICES laboratory codes) (from Green, 1993):

Abbreviation <sup>1</sup>	English	Norwegian
<b>INSTITUTES</b>		
<b>FORC</b>	Water Quality Institute (earlier a part of FORCE Institutes, Div. for Isotope Technique and Analysis) [DK]	<i>Vannkvalitets instituttet (tidligere en del av FORCE Institutterne, Div. for Isotopteknik og Analyse) [DK]</i>
<b>IMRN</b>	Institute of Marine Research (IMR)	<i>Havforskningsinstituttet</i>
<b>NIVA</b>	Norwegian Institute for Water Research	<i>Norsk institutt for vannforskning</i>
<b>SIIF</b>	Fondation for Scientific and Industrial Research at the Norwegian Institute of Technology - SINTEF (a division, previously: Center for Industrial Research SI)	<i>Stiftelsen for industriell og teknisk forskning ved Norges tekniske høgskole-SINTEF (en avdeling, tidligere: Senter for industriforskning SI)</i>

<sup>1</sup>) After: ICES Environmental Data Reporting Formats. International Council for the Exploration of the Sea. January 1992.

## 6. Analyses code descriptions

Brief descriptions of the analytical methods employed for JMP and NSTF-MMP have been coded and compiled (Green, 1993). With the exception of arsenic, those relevant to the 1990 sediment survey are listed below. Arsenic determinations were done by SIIF in 1993 using atomic absorption using hydride technique on an aliquot from NIVA HF extract (cf., code 351)

The following descriptions (excerpts from Green 1993) focus on the principles involved and hence are not intended as detailed specifications. The descriptions may vary arbitrarily in detail and are coupled to period analysis for the 1990 sample and hence, may not necessarily reflect methods currently practiced by the contributing institutes. Note also that the descriptions do not necessary list which specific compounds of PAH's and PCB's are determined. These can be derived from Annex A.

*code*      *description*

### 350      **Mercury in sea bed sediment (NIVA)**

#### Drying procedure

An accurately weighed sample of approximately 1g is dried at 105°C for one hour. The sample is cooled in a desiccator for one hour before weighing. Normally, determinations are on wet samples and the water content is determined of a subsample.

#### Extraction (oxidation)

Approximately 1g of the sample is accurately weighed in pyrex flasks, 20ml 7N (concentrated) nitric acid (suprapur) is added and the solution heated 120°C for 30min in an autoclave. The solution is transferred to a 100ml volumetric flask and diluted to the mark with deionized water.

#### Determination

A maximum of 100ml sample used, diluted if Hg >50ng/l; P-E 1100 B with gold trap used, helium replaced air as carrier gas and lowest signal was 2.5ng/l.

### 351      **Chromium, copper, iron, manganese, nikkel and zinc in sea bed sediment (NIVA)**

Same procedure as 350: #1, Drying.

#### Extraction (oxidation)

'Total' extraction (HFO): Approximately 0.1g of the sample is accurately weighed in, 2ml of hydroflouric acid and 2+2ml of concentrated nitric acid ('aqua regia') is added and the solution heated in a microwave oven. The solution is transferred to a 100ml volumetric clask and diluted to the marked with deionized water.

#### Determination

Determinations by **flame atomic absorption spectrometry** using acetylene/air flame. Instrument: *Prior to 1986* a Perkin Elmer model 2380 was used and *since 1986* the P-E

560 has been used. For determinations of low concentrations (below detection limits) the flameless method (352) is used. The following are elements often analyzed by flame and their respective detection limits of extract solution:

Element		$\mu\text{g/l}$
Al	aluminium	1000
Cr	chromium	50
Cu	copper	100
Fe	iron	200
Li	lithium	10
Mn	manganese	50
Ni	nickel	100
Zn	zinc	10

**352 Aluminium, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, nickel, and zinc in seabed sediment (NIVA)**

Same procedure as 350: #1, Drying.

Extraction (oxidation)

'Total' extraction (HFO): Approximately 0.1g of the sample is accurately weighed in, 2ml of hydrofluoric acid and 2+2ml of concentrated nitric acid (suprapur) is added and the solution heated in a microwave oven. The solution is transferred to a 100ml volumetric flask and diluted to the mark with deionized water.

Determination

Concentrations are determined by **graphite furnace atomic absorption** electrothermal spectrometry or GFAAS using a hollow cathode lamp (HCL) or an electrodeless discharge lamp (EDL) as a light source. *Prior to 1986* a Perkin-Elmer model 560 with HGA-500 graphite furnace was used and *since 1986* the P-E 2380 has been used instead of the P-E 560.

A 20 $\mu\text{l}$  portion of extract, treated with  $\text{HNO}_3$ , is injected into graphite tube. The sample is then heated electrothermally in a stepwise manner through drying, ashing and atomization by a programme designed for each element. The programme which controls the ramp time, holding time and temperature for each phase is often adjusted to achieve optimal results.

The elements analyzed and approximated limit of detection for the extract are:

<b>Element</b>		<b>µg/l</b>
<b>Al</b>	<b>aluminium</b>	5
<b>Cd</b>	<b>cadmium</b>	0.1
<b>Co</b>	<b>cobalt</b>	5
<b>Cr</b>	<b>chromium</b>	0.5
<b>Cu</b>	<b>copper</b>	0.5
<b>Fe</b>	<b>iron</b>	5
<b>Li</b>	<b>lithium</b>	10
<b>Mn</b>	<b>manganese</b>	0.5
<b>Ni</b>	<b>nickel</b>	5
<b>Pb</b>	<b>lead</b>	0.5
<b>Zn</b>	<b>zinc</b>	10

#### 650 **Pb-210 dating (FORC)**

reference: Pheiffer Madsen, P., Sørensen, J., 1979. Validation of the Lead-210 dating method. Journal of Radioanalysis and Chemistry 54:39-48.

Excerpt (Larsen, B., & Jensen, A., 1989. Marine Pollution Bulletin 20(11):556-560.): "The determination of time- dependent sediment parameters is based on the vertical distribution of the natural radioactive isotope lead-210 [= <sup>210</sup> Pb] ... The content of unsupported lead-210, that lead-210 not produced in the sediment) decreases regularly downwards in undisturbed and steadily deposited sediment owing to radioactive decay. Departures from this predictable lead-210 profile in the topmost sediment column permit an assessment of mixing and/or intermittent erosion."

Dried slices of sediment are employed.

#### 760 **PCB in sea bed sediment (IMRN)**

PCB in total sediment (50g) were extracted by acetone and hexane:Acetone (3:1) using repeated ultrasonication and aggitation (Jensen et al., 1977).

Sulphur was removed with metallic mercury.

A florisil column (100-230 mesh, 30 cm x 6 mm ID) was used for the separation of the extract into 3 fractions. The first fraction eluted with 2 ml pentane was discarded; the second fraction eluted with 6.5 ml pentane contained PCB, HCB, aldrin, o,p-DDE, p,p-DDE and o,p-DDT; and the third fraction eluted with 10ml pentane:acetone (9:1) contained, alpha-HCH, beta-HCH, gamma-HCH (Lindane), o,p-DDD, p,p-DDD, o,p-DDT (20%) and p,p-DDT.

The third fraction needed further clean up on a neutral alumina column (30 cm x 6 mm ID; deactivated with 6% water). The chlorinated pesticides were eluted with 18 ml pentane. Beta-HCH was not eluted using this method.

A few samples (1990 sediment stations 15S-67S) were cleaned up before separation on the florisil column. A short silica column (10 cm x 6 mm ID) was used, followed by a

alumina column (10 cm x 6 mm ID, acidic Al<sub>2</sub>O<sub>3</sub>). Pentane:dichloromethane (4:1) was used for elution of the compounds.

The chlorinated compounds were quantified on GC (ECD) using two different columns: SE-54 CB, fused silica, 50 m x 0.20 mm, 0.11 µm; SP-2330, fused silica, 60 m x 0.25 mm, 0.20 µm.

Reference: Jensen, S., Renberg, L., Reutergårdh, L., 1977. Residue analysis of sediment and sewage sludge for organochlorines in the presence of elemental sulfur. Anal. Chem. 49:316-318.

**769 PAH in sea bed sediment (IMRN)**

Ca.50 g of total sediment (< 2mm) were extracted three times with acetone and hexane:acetone (3:1) using ultrasonication and agitation.

The clean-up of the extract was carried out on a short silica column (10 cm x 6 mm ID) using pentane:dichloromethane (9:1) as eluent. GC/MS equipped with a SE-54 fused silica capillary column (50 m x 0.20 mm ID, 0.11 µm film thickness) was used for the analysis of 2-6 ring aromatic hydrocarbons.

**390 Total organic nitrogen and organic carbon (CORG) in sea bed sediment (NIVA)**

5-8mg of freeze dried sample is weighed in a tin-foiled capsule and heated to over 1800 °C in an oven. The carbon in the gas is analyzed in a C-N 1106 Carlo-Erba element analyzer. Detection limit for C is 1 µg/mg and N is 1 µg/mg.

## **7. Comment on quality assurance and detection limit**

The analytical labs have been routinely involved in international and national intercalibration exercises. An overview of which exercises the laboratories have participated in has been given in Green (1995). In addition the laboratories have (more regularly in recent years) analyzed standard reference material in connection with analyses of the samples used in monitoring. The results of intercalibration exercises and analyses of the standard reference material is discussed in part in the annual National Comments.

The detection limits are approximations based on 3 times the standard deviation of the 'blank' or near zero concentration of a solution. Day-to-day variations in the analytical instrument may lead to minor variation in detection limits.

## 8. Explanation of Annexes A and B

Annex A present the raw data from the 1986-92 sediment investigations. Annex B presents the count, mean and standard deviation for parallel samples, if relevant. All data is on a **dry weight** basis. Three units of measure are used: **ppt** (parts per thousand), **ppm** (parts per million) and **ppb** (parts per billion). The numeric values shown have been printed with a fixed number of digits and do not necessarily indicate analytical precision.

The table headings are mostly self explanatory but the following may be helpful:

<b>Sample area</b>	refers to the official JMP designation and for the most part this is undefined (designated J99). The stations are sorted beginning with those in Oslofjord and continuing around the coast to Lofoten.
<b>Locality</b>	station name and position.
<b>Type</b>	refers to sample method: where GC = gravity corer (used by NIVA).
<b>Diameter</b>	refer to the inner diameter (mm) of GC.

The abbreviations for analytical laboratory, analysis code, detection limit and variable name have been explained in the preceding sections

The order of NIVA stations in the tables are as follows (see also Fig.1 - 3):

30S, 35S, 36S, 77S, 15S, 22S, 24S, 52S, 56S, 57S, 63S, 67S, 69S, 27S, 89S, 84S, 82S,  
90S, 92S, 95S, 99S, 98S

## 9. References

- Green, N.W., 1993. Joint Monitoring Programme - JMP. Overview of analytical methods employed by JMP in Norway 1981-1991. Norwegian Institute for Water Research. Project O-80106 report number 41 pp..
- Green, N.W., 1995. Joint Monitoring Programme (JMP) National comments to the Norwegian Data for 1993. NIVA project 80106, published 5.January.95 123pp.. (Also as document SIME 1/6/1).
- IARC, 1987. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans overallt evaluation of cascinogety: An updating og IARC Monographs vol. 1 to 42 Suppl. 7, Lyon.
- ICES, 1986. Interim reporting format for contaminants in fish and shellfish, JMP-version. ICES, May 1986.
- ICES, 1992. ICES Environmental Data Reporting Formats. Version 2.1. International Council for the Exploraion of the Sea. January 1992.
- Green, N.W., Klungsøyr, J., 1994. Norwegian 1990 sediment data for the North Sea Task Force (NSTF) and the Joint Monitoring Group (JMG). A joint report by Norwegian Institute for Water Research (NIVA) and Institute of Marine Research (IMR). NIVA project O-80106 (report number 3110), 17 pp + annexes. ISBN-82-577-2585-4
- NSTF, 1990. North Sea Task Force Monitoring Master Plan. North Sea Task Force, Oslo and Paris Commissions, International Council for the Exploration of the Sea. North Sea Environment. Report no. 3, 37 pp..
- OSPARCOM, 1990. Oslo and Paris Conventions. Principles and methodology of the Joint Monitoring Programme. [Monitoring manual for participants of the Joint Monitoring Programme (JMP) and North Sea Monitoring Master Plan (NSMMP)]. March 1990

**Annex A**  
**Sediment 1986-92**  
**Raw data**



08/02-95

REPORT INFORMATION : " S E D I M E N T " .

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----- : -----
Table-File-Name      : I:\TBX\JMG\SED\TAB-0SED.TB1
Limit-CheckFile     : )LIM\NI941013.SED
Weight basis        : "DRY.weight".
Table SORT-Mode     : 1. LOCALITY-index
                    :   1.1: Sampling Lab = NIVA
                    :       (Predefined sequence)
                    :   1.2: OTHER Sampling Labs
                    :       (Position North:South,
                    :       and West:East)
                    : 2. Sample DATE.
                    : 3. Tables may be separated into
                    :   to "variable-groupes" tested
                    :   as: Subno = 0 and Subno > 0
----- : -----

```

NOTES :

☞ NB ! The numeric values shown have been printed with a FIXED number of digits, and do not necessarily indicate analytical precision.

☞ For "Σ" variables (e.g. CB\_Σ7, DD\_ΣΣ) , all the "<"-values (less than the detection limits) are counted only once. If two or more different "<"-values are present, the maximum of the least questionable (suspect) "<"-value is used. Any missing "Σ"-elements are ignored.

☞ Footnotes consist of 4 parts:

1: a letter code (e.g ? or s)

The letter code may include one or more characters indicating possible matching letters referenced before or after numbers.

2: a count (in paranthesis)

3: a "!" or ">"

"!" refer to notes BEFORE numeric values.

">" refer to notes AFTER numeric values.

4: The footnote explanation.

Sample area: J26 Oslofjorden. All concentrations on Dry-weight basis.  
 Locality : 30S Steilene, Latitude: 59°49.10N, Longitude: 10°33.80E  
 Sample date: 861029, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "\*" then <63µm.

Seq. no.	Water depth	Core depth	Sub Slice-depth	no. upper	lower														
	m	cm	cm	cm	cm														
0301	98	35	01	0	1	.													
						.													
						.													
						.													
0302	99	34	01	0	1	26.80													
						.													
						.													
0303	97	34	01	0	1	30.90													
						.													
						.													
0304	98	41	01	0	1	.													
						.													
						.													

a(15) > Exceeds CLASS-1 limit.

c( 9) > Exceeds CLASS-3 limit.





Sample.area: J26 Oslofjorden. All concentrations on Dry-weight basis.  
 Locality : 36S Fårder area, Latitude: 59°00.40N, Longitude: 10°41.60E  
 Sample date: 861020 , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "\*" then <63µm.

Seq. no.	Water depth	Core depth	Sub Slice-depth	Analytical Lab. Code	NIVA 390	NIVA 352	NIVA 351	NIVA 350	NIVA 352	NIVA 351	
no.	depth	Lngt	no	upper	lower	cm	cm	cm	cm	cm	
0361	142	32	01	0	1	16.90	0.06	20.00	0.12	65.00a	0.119
			02	1	2	17.50	0.06	19.90	0.14	67.00a	0.125
0362	139	45	01	0	1	17.50	0.05	20.00	0.12	67.00a	0.121
			02	1	2	17.40	0.06	20.00	0.14	67.00a	0.124
0363	139	44	01	0	1	16.80	0.06	21.00	0.14	66.00a	0.120
			02	1	2	16.60	0.07	20.00	0.14	67.00a	0.121
0364	141	25	01	0	1	16.60	0.07	20.00	0.12	65.00a	0.118
			02	1	2	16.10	0.08	21.00	0.12	74.00a	0.120

a(8) > Exceeds CLASS-1 limit.

Sample.area: **J26 Oslofjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **36S Fårder area**, Latitude: 59°00.40N, Longitude: 10°41.60E  
 Sample date: **900512**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "\*" then <63µm.

Seq. no.	Water depth	Core depth	Analysis Code	Detection Limit	Water Slice-depth	NIVA		MOCON		AL	Li	Cd	Cu	Hg	Pb	Zn	FORC
						Core	Sub	%<63µ	ppt								
0361	458	67	01	0	2	390	47,900	64,000	0.10	21.90	0.12	52.50a	0.130	.	.	.	.
0362	458	54	01	0	1	22.40	44,000	67,000	0.11	26.00	0.08	52.50a	0.130	.	.	.	.
			02	1	2	22.60	46,800	.	0.09	24.60	0.07	32.90a	0.130	.	.	.	.
			03	2	4	22.30	67,200	.	0.06	26.50	0.06	34.10a	0.130	.	.	.	.
			04	4	6	22.90	54,900	.	0.04	25.60	0.05	34.90a	0.150	.	.	.	.
			05	6	10	22.70	57,200	.	0.07	24.80	0.05	34.70a	0.140	.	.	.	.
			06	10	15	22.70	61,300	.	0.08	24.00	0.05	34.10a	0.130	.	.	.	.
			07	15	20	21.70	54,100	.	0.07	23.00	0.08	38.00a	0.140	.	.	.	.
0363	462	73	01	0	1	21.70	50,600	63,500	0.10	23.10	0.10	50.00a	0.120	.	.	.	.
			02	1	2	22.50	58,900	.	0.06	23.40	0.10	27.80	0.120	.	.	.	.
			03	2	4	21.90	60,900	.	0.05	24.00	0.07	31.20a	0.130	.	.	.	.
			04	4	6	22.50	53,100	.	0.04	23.90	0.06	33.90a	0.130	.	.	.	.
			05	6	10	23.00	51,900	.	0.10	24.80	0.06	31.10a	0.130	.	.	.	.
			06	10	15	21.20	49,700	.	0.06	23.70	0.08	35.00a	0.130	.	.	.	.
			07	15	20	20.10	48,500	.	0.09	22.30	0.10	34.40a	0.130	.	.	.	.
0364	459	69	01	0	2	.	.	.	.	.	.	.	.	.	.	.	s51.67
			02	2	4	75.37	.	.	.	.	.	.	.	.	.	.	miss
			03	4	6	69.83	.	.	.	.	.	.	.	.	.	.	s71.50
			04	6	8	66.02	.	.	.	.	.	.	.	.	.	.	miss
			05	8	10	64.39	.	.	.	.	.	.	.	.	.	.	s75.00
			06	10	12	64.52	.	.	.	.	.	.	.	.	.	.	miss
			07	12	14	64.86	.	.	.	.	.	.	.	.	.	.	miss
			08	14	16	64.38	.	.	.	.	.	.	.	.	.	.	s68.00
			09	16	18	61.42	.	.	.	.	.	.	.	.	.	.	miss
			10	18	20	62.01	.	.	.	.	.	.	.	.	.	.	s56.67
			11	20	22	61.95	.	.	.	.	.	.	.	.	.	.	miss
			12	22	24	61.09	.	.	.	.	.	.	.	.	.	.	s58.33
			13	24	26	62.48	.	.	.	.	.	.	.	.	.	.	miss
			14	26	28	62.11	.	.	.	.	.	.	.	.	.	.	s65.83
			15	28	30	62.56	.	.	.	.	.	.	.	.	.	.	miss
			16	30	32	60.86	.	.	.	.	.	.	.	.	.	.	s64.67
			17	32	34	60.89	.	.	.	.	.	.	.	.	.	.	miss
			18	34	36	62.04	.	.	.	.	.	.	.	.	.	.	s63.17
			19	36	38	60.48	.	.	.	.	.	.	.	.	.	.	miss
			20	38	40	60.09	.	.	.	.	.	.	.	.	.	.	miss
			21	40	42	60.56	.	.	.	.	.	.	.	.	.	.	33.00
			22	42	44	61.44	.	.	.	.	.	.	.	.	.	.	miss
			23	44	46	59.50	.	.	.	.	.	.	.	.	.	.	44.67
						60.68	.	.	.	.	.	.	.	.	.	.	miss

s ( 9 ) ! Suspect value(s)  
 miss(12) ! Missing value.  
 a (14) > Exceeds CLASS-1 limit.











Tab.width cont'd J99, 155 Lista area, 900507.

Seq. no.	Water depth in m	Core depth in cm	Sub Slice	no upper	Lower	IMRN										CHR													
						HCHA	HCHB	HCHC	HC	HC	HC	HC	HC	HC	HC		HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC
0155	383	28	00	0	2	0.21	s11.50	s6.53	s18.24	s0.58a	s0.12	16.00	34.00	137.00	192.00	30.00	71.00	10.00	10.00	6.00	86.00	10.00	123.00	102.00	61.00	11.00	12.00	63.00	108.00
0156	383	25	00	0	2	0.09	0.08	0.10	0.27	0.61a	0.10	16.00	95.00	208.00	153.00	20.00	97.00	14.00	14.00	9.00	139.00	16.00	120.00	99.00	100.00	16.00	16.00	74.00	124.00

Tab.width cont'd J99, 155 Lista area, 900507.

Seq. no.	Water depth in m	Core depth in cm	Sub Slice	no upper	Lower	IMRN										SPAH								
						BEKF	BEP	BAP	PER	ICDP	DBAHA	BCHIP	DI	DI	DI		DI	DI	DI	DI	DI	DI	DI	DI
0155	383	28	00	0	2	273.00	102.00	77.00c	28.00	155.00	36.00	124.00	379.00	1488.00	604.00	604.00	1867.00a	1867.0						
0156	383	25	00	0	2	280.00	109.00	76.00c	34.00	138.00	31.00	112.00	470.00	1624.00	599.00	599.00	2094.00c	2094.0						

Sample.area: J99 Undefined. All concentrations on Dry-weight basis.

Locality : 225 Bømlø area, Latitude: 59°25.90N, Longitude: 04°50.20E

Sample date: 900504 Sampling Lab: NIVA, Type: GC, Diameter: 0.50

Est. sedimentation rate 001 mm/year. Unfractionated sample unless imm then <53um.

Seq. no.	Water depth in m	Core depth in cm	Sub Slice	no upper	Lower	ANALYTICAL LAB. RESULTS																															
						MOON	%	CO	OR	AL	LI	CD	CU	HG	PB	ZN	PB	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	FORC	?	Pb210	mbq/g		
0221	200	20	01	0	2	64.93		13.00	56.900	46.000	0.06	17.50	0.02	65.00a	0.090																						
0222	200	21	01	0	2	48.85		7.00	45.500	26.000	0.04	9.60	0.02	31.00a	0.050																						
		02	1	0	2	53.50		7.50	48.700		0.03	11.90	0.05	26.60	0.050																						
		03	2	0	2	53.11		11.00	56.600		0.14	14.90	0.02	45.10a	0.080																						
		04	4	0	2	53.63		9.50	56.300		0.03	15.30	0.02	27.40	0.070																						
		05	6	0	2	44.98		6.80	48.400		0.06	10.70	0.01	20.00	0.050																						
		06	10	0	2	37.87		4.90	44.500		0.06	9.40	<0.01	13.90	0.050																						
		07	15	0	2	33.97		4.90	64.400		0.08	12.40	0.01	19.60	0.170a																						
0223	200	23	01	0	1			10.10	60.300	39.500	0.05	13.40	0.01	47.50a	0.070																						
		02	1	0	2			9.40	57.100		<0.02	13.20	0.03	38.50a	0.080																						
		03	2	0	2			9.30	62.800		0.03	13.30	0.02	47.10a	1.440c																						
		04	4	0	2			9.60	60.700		0.03	12.00	0.02	36.10a	0.190a																						
		05	6	0	2			8.10	52.600		0.06	10.50	0.02	22.60	0.060																						
		06	10	0	2			7.00	46.700		0.05	9.50	<0.01	16.00	0.070																						
		07	15	0	2			6.30	48.000		0.07	9.20	0.01	16.10	0.060																						
0224	200	24	01	0	2			63.13																													
		02	2	0	2			50.21																													
		03	4	0	2			46.10																													
		04	6	0	2			43.42																													
		05	8	0	2			28.29																													
		06	10	0	2			35.28																													
		07	12	0	2			32.24																													
		08	14	0	2			37.24																													
		09	16	0	2			39.75																													
		10	18	0	2			33.15																													
		11	20	0	2			32.68																													
		12	22	0	2			27.48																													

miss(5) ! Missing value.  
 a (9) > Exceeds CLASS-1 limit.  
 c (1) > Exceeds CLASS-3 limit.



Sample area: **J63 Sørforjorden**. All concentrations on **Dry weight basis**.  
 Locality : **52S Tysedal**, Latitude: 60°06.90N, Longitude: 06°32.90E  
 Sample date: **901031**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 002 mm/year. Unfractionated sample unless mm then <63µm.

Seq. no.	Water depth m	Core depth cm	Sub slice no	Slice depth cm	Lower	NIVA										
						390	352	353	351	350	353	351	350	353	351	351
0521	111	8	00	0	2	83.59	27.80	41.600	12.20e	368.00c	13.50e	3150.00e	4.240c			
						100.00	24.00	53.200	12.10e	395.00e	13.00e	3500.00e	4.550c			
0522	111	17	00	0	2*	14.50	49.000	6.78c	178.00c	5.93e	1330.00c	1.980c				
						100.00	13.80	52.200	6.13c	186.00c	5.81e	1430.00c	2.030c			
0523	111	22	00	0	2	25.60	44.800	5.50c	169.00c	7.04e	1250.00c	1.970c				
						100.00	22.10	55.800	6.09c	167.00c	6.10e	1220.00c	1.840c			

c(20) > Exceeds CLASS-3 limit.  
 e(10) > Exceeds CLASS-5 limit.

Sample area: **J63 Sørforjorden**. All concentrations on **Dry weight basis**.  
 Locality : **56S Kvalnes**, Latitude: 60°13.70N, Longitude: 06°35.60E  
 Sample date: **901101**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless mm then <63µm.

Seq. no.	Water depth m	Core depth cm	Sub slice no	Slice depth cm	Lower	NIVA													FORC
						390	352	353	353	351	350	353	351	350	353	351	353	351	
0561	390	23	01	0	2	82.62	13.60	65.300	0.46a	64.20a	2.14c	288.00c	0.510a						
0562	390	23	01	0	2	87.39	15.60	68.300	0.58a	68.00a	2.53c	301.00c	0.710c						
						85.03	11.70	55.400	0.41a	66.10a	2.17c	285.00c	0.570a						
						83.75	14.20	55.300	0.44a	67.40a	2.14c	293.00c	0.490a						
						81.42	12.20	59.100	0.39a	67.20a	2.24c	301.00c	0.560a						
						80.53	12.40	80.300	0.55a	65.80a	1.88c	234.00c	0.440a						
						82.04	12.00	75.700	0.32a	58.20a	1.11c	150.00c	0.300a						
						73.60	9.90	83.600	0.09	44.20a	0.08	61.90a	0.140						
0563	390	24	01	1	2	14.40	74.700	0.50a	65.60a	2.19c	260.00c	0.630a							
						13.70	78.900	0.35a	67.20a	2.09c	294.00c	0.460a							
						12.00	47.700	0.46a	66.30a	2.27c	25.30	0.450a							
						12.70	54.500	0.45a	61.90a	2.33c	30.00	0.490a							
						13.20	55.500	0.40a	65.30a	2.44c	251.00c	0.430a							
						11.60	49.300	0.25	54.70a	0.82c	104.00a	0.250a							
						10.30	53.600	0.22	55.10a	0.71c	72.60a	0.220a							
0564	390	24	01	0	2	59.96							54.83						
						55.06							54.00						
						54.39							55.33						
						52.99							47.67						
						51.14							54.33						
						48.65							25.00						
						46.32							13.33						
						43.29							-67						
						43.20							1.67						
						43.91							3.33						
						40.08							miss						
						36.50							-5.00						

miss(1) ! Missing value.  
 a (43) > Exceeds CLASS-1 limit.  
 c (25) > Exceeds CLASS-3 limit.



Sample.area: **J62 Hardangerfjorden**. All concentrations on **Dry weight basis**.  
 Locality : **63S Ranaskjær**, Latitude: 60°23.60N, Longitude: 06°27.10E  
 Sample date: **901101**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "µ" then <63µm.

Seq. no.	Water depth	Core depth	Sub slice	Slice-depth	NIVA		NIVA		NIVA		NIVA		NIVA	
					390	352	353	351	350	353	351	353	351	353
0631	680	15	00	0	2	96.56	15.40	57.900	0.17	45.10a	0.66c	138.00c	0.290a	
0632	680	16	00	0	2	.	15.10	54.600	0.12	42.50a	0.65c	138.00c	0.280a	
0633	680	13	00	0	2	.	15.40	57.400	0.17	44.50a	0.73c	173.00c	0.310a	

a(6) > Exceeds CLASS-1 limit.  
 c(6) > Exceeds CLASS-3 limit.

Sample.area: **J62 Hardangerfjorden**. All concentrations on **Dry weight basis**.  
 Locality : **67S Strandebarbm**, Latitude: 60°13.50N, Longitude: 06°05.10E  
 Sample date: **901102**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "µ" then <63µm.

Seq. no.	Water depth	Core depth	Sub slice	Slice-depth	NIVA		NIVA		NIVA		NIVA		NIVA		NIVA		NIVA		FORC
					390	352	353	351	350	353	351	353	350	353	350	353	351	353	
0671	650	18	01	0	2	97.32	14.20	54.500	0.11	32.40	0.24a	72.20a	0.200a	.	.	.	.	.	.
0672	650	23	02	1	1	95.96	13.80	54.400	0.16	34.00	0.27a	75.80a	0.230a	.	.	.	.	.	.
							13.20	53.800	0.12	33.10	0.28a	81.50a	0.220a	.	.	.	.	.	.
							15.70	56.000	0.12	34.40	0.32a	93.30a	0.230a	.	.	.	.	.	.
							14.50	57.400	0.17	34.90	0.17a	58.10a	0.170a	.	.	.	.	.	.
							13.80	55.400	0.12	32.40	0.11	48.70a	0.160a	.	.	.	.	.	.
							13.20	59.200	0.12	33.00	0.06	41.90a	0.150	.	.	.	.	.	.
							12.80	63.000	0.14	31.40	0.02	37.90a	0.140	.	.	.	.	.	.
							14.60	59.400	0.15	40.20a	0.28a	83.00a	0.270a	.	.	.	.	.	.
							14.20	58.700	0.10	32.70	0.29a	88.90a	0.220a	.	.	.	.	.	.
							14.70	64.500	0.15	35.10a	0.21a	74.80a	0.210a	.	.	.	.	.	.
							14.50	58.900	0.16	35.90a	0.15	64.00a	0.190a	.	.	.	.	.	.
							14.10	61.500	0.10	32.50	0.09	60.00a	0.170a	.	.	.	.	.	.
							13.30	62.600	0.15	31.30	0.02	41.00a	0.150	.	.	.	.	.	.
							10.80	63.800	0.11	29.30	0.02	31.30a	0.140	.	.	.	.	.	.
0674	650	23	01	0	2	.	64.28	.	.	.	.	.	.	.	.	.	.	.	115.50
							57.59	.	.	.	.	.	.	.	.	.	.	.	119.83
							57.68	.	.	.	.	.	.	.	.	.	.	.	85.00
							55.47	.	.	.	.	.	.	.	.	.	.	.	97.00
							56.53	.	.	.	.	.	.	.	.	.	.	.	104.83
							55.72	.	.	.	.	.	.	.	.	.	.	.	18.50
							51.91	.	.	.	.	.	.	.	.	.	.	.	1.67
							50.57	.	.	.	.	.	.	.	.	.	.	.	37.50
							49.29	.	.	.	.	.	.	.	.	.	.	.	24.00
							48.85	.	.	.	.	.	.	.	.	.	.	.	14.67
							48.34	.	.	.	.	.	.	.	.	.	.	.	0.33

a(37) > Exceeds CLASS-1 limit.









Tab.width cont'd J99, 27S Stattdlandet (east of), 920902.

Seq. no.	Water depth	Core depth	Sub slice-depth	no. upper	lower	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	Σ(*)	Σ(*)	Σ(*)	Σ(*)	Σ(*)	Σ(*)
	m	cm	cm	cm	cm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
0271	289	33	01	0	2	71.00	297.00	141.00	145.00	118.00c	37.00	258.00	36.00	240.00	<1.00	<1.00	s68.00	s<1707.00	<908.00				s<1k78a
			02	27	32	27.00	233.00	85.00	105.00	63.00c	40.00	208.00	22.00	193.00	<1.00	<1.00	s<1.00	s<1094.00	<629.00				s<1k09a
0272	289	39	01	0	2	73.00	319.00	124.00	171.00	138.00c	41.00	284.00	36.00	294.00	<1.00	<1.00	s<6.00	s<1876.00	<959.00				s<1k88a
			02	33	38	11.00	s78.00	miss	25.00	16.00a	17.00	72.00	8.00	64.00	<1.00	<1.00	s<8.00	s<327.00	s<180.00				s<334.00a
0273	289	40	01	0	1																		
0274	290	40	01	0	1																		
			02	1	2																		
			03	2	4																		
			04	4	6																		
			05	6	10																		
			06	10	15																		
			07	15	20																		
			08	20	30																		
			09	30	39																		
0275	289	51	01	0	1																		
			02	1	2																		
			03	2	4																		
			04	4	6																		
			05	6	10																		
			06	10	15																		
			07	15	20																		
			08	20	30																		
			09	30	39																		
0278	287	40	01	0	1																		
			02	1	2																		
			03	2	3																		
			04	5	6																		
			05	8	9																		
			06	12	13																		
			07	19	20																		
			08	25	26																		
			09	31	32																		

Sample.area: J65 Orkdalsfjorden. All concentrations on Dry-weight basis.

Locality : 89S Thamshavn, Latitude: 63°19.08N, Longitude: 09°52.05E

Sample date: 871019 , Sampling Lab: NIVA, Type: GC, Diameter: 050

Est. sedimentation rate mm/year. Unfractionated sample unless \*\*\* then <63µm.

Seq. no.	Water depth	Core depth	Sub slice-depth	no. upper	lower	CORG	Al	Cd	Cu	Hg	Pb	Zn
	m	cm	cm	cm	cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0891	17	01	0	1	1	9.84	64.700	0.20	202.00c	0.13	87.80a	0.198a
			02	1	2	10.30	65.900	0.81a	192.00c	0.07	102.60a	0.205a
0892	11	01	0	1	1	14.50	65.600	0.51a	412.00c	0.14	139.60c	0.366a
			02	1	2	11.50	62.500	3.45c	252.00c	0.14	76.00a	0.252a

a(9) > Exceeds CLASS-1 limit.

c(6) > Exceeds CLASS-3 limit.

Sample area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **89S Thamshavn**, Latitude: 63°19.08N, Longitude: 09°52.05E  
 Sample date: **920830** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Seq. no.	Water depth	Core Slice	Sub Slice	no	depth	NIVA		NIVA		NIVA		NIVA	
						390	353	351	350	0.01	0.001	0.001	0.001
Analytical Lab. :						NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA
Analysis Code. :						390	353	351	350	353	351	353	351
Detection Limit :						0.2	0.001	0.001	0.01	0.001	0.001	0.001	0.0001
CORG						Li	Cd	Cu	Hg	Pb	Zn	Pb	Zn
ppm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
no upper						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
lower						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
cm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
cm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0891	183	14	01	0	1	11.00	34.000	0.42a	230.00c	0.05	35.50a	0.294a	0.294a
0892	179	12	01	0	1	11.70	33.500	1.00a	185.00c	0.07	31.50a	0.234a	0.234a
0893	178	17	01	0	1	16.30	36.000	0.80a	426.00c	0.16a	90.00a	0.394a	0.394a

a(10) > Exceeds CLASS-1 limit.  
 c( 3) > Exceeds CLASS-3 limit.

Sample area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **84S Trossavika**, Latitude: 63°21.70N, Longitude: 09°57.40E  
 Sample date: **871019** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Seq. no.	Water depth	Core Slice	Sub Slice	no	depth	NIVA		NIVA		NIVA		NIVA	
						390	352	351	350	0.01	0.001	0.01	0.0001
Analytical Lab. :						NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	
Analysis Code. :						390	352	351	350	352	351	352	
Detection Limit :						1.0	0.001	0.001	0.01	0.01	0.05	0.0001	0.0001
CORG						Al	Cd	Cu	Hg	Pb	Zn	Pb	Zn
ppm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
no upper						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
lower						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
cm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
cm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0841	18	01	0	1	11.30	70.000	0.47a	308.00c	0.29a	192.20c	0.472a	0.472a	0.472a
	02	0	1	2	10.90	57.500	0.82c	469.20c	0.82c	469.20c	2.160c	2.160c	2.160c
0842	23	01	0	1	12.50	59.800	0.46a	232.00c	0.28a	139.10c	0.352a	0.352a	0.352a
	02	1	2	2	12.10	62.000	6.23c	419.00c	0.35a	218.10c	0.634a	0.634a	0.634a
0843	23	01	0	1	12.30	64.500	0.87a	582.00c	0.54a	293.90c	0.864c	0.864c	0.864c
	02	1	2	2	8.77	58.100	854.00c	0.57a	374.60c	0.206a	0.206a	0.206a	0.206a
0844	21	01	0	1	12.30	63.300	0.96a	308.00c	0.27a	160.80c	0.500a	0.500a	0.500a
	02	1	2	2	9.58	60.400	793.00c	0.67c	411.10c	1.730c	1.730c	1.730c	1.730c

a(15) > Exceeds CLASS-1 limit.  
 c(22) > Exceeds CLASS-3 limit.

Sample area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **84S Trossavika**, Latitude: 63°21.70N, Longitude: 09°57.40E  
 Sample date: **920830** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Seq. no.	Water depth	Core Slice	Sub Slice	no	depth	NIVA		NIVA		NIVA		NIVA	
						390	353	351	350	0.01	0.001	0.01	0.0001
Analytical Lab. :						NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	
Analysis Code. :						390	353	351	350	353	351	353	
Detection Limit :						0.2	0.001	0.001	0.01	0.01	0.001	0.0001	0.0001
CORG						Li	Cd	Cu	Hg	Pb	Zn	Pb	Zn
ppm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
no upper						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
lower						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
cm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
cm						ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0841	355	38	01	0	1	10.90	45.500	0.56a	247.00c	0.17a	90.00a	0.342a	0.342a
0842	355	23	01	0	1	11.20	40.000	4.10c	573.00c	0.32a	140.00c	0.613a	0.613a
0843	355	16	01	0	1	11.20	46.000	0.47a	405.00c	0.13	95.00a	0.405a	0.405a

a(9) > Exceeds CLASS-1 limit.  
 c(5) > Exceeds CLASS-3 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry.weight basis**.  
 Locality : **82S Flakk**, Latitude: 63°27.05N, Longitude: 10°11.08E  
 Sample date: **871019**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/Year. Unfractionated sample unless "\*" then <63µm.

Seq. no.	Water depth m	Core depth cm	Sub Slice-depth no upper lower	Analytical Lab.		NIVA		NIVA		NIVA		NIVA	
				Code	Detection Limit	390	352	351	350	352	351	352	351
						1.0	0.001	0.01	0.01	0.01	0.05	0.0001	0.0001
						<b>COBG</b>	<b>Al</b>	<b>Cd</b>	<b>Cu</b>	<b>Hg</b>	<b>Pb</b>	<b>Zn</b>	
						ppt	ppt	ppm	ppm	ppm	ppm	ppt	
0821	31	01	0	1		31.70	66.200	<0.07	50.40a	0.14	41.80a	0.137	
						35.00	61.400	<0.09	62.40a	0.17a	40.10a	0.152a	
0823	21	01	0	1		13.80	59.300	0.06	50.40a	0.08	85.30a	0.136	
						6.95	63.500	0.10	61.80a	0.07	84.60a	0.150	
0824	10	01	0	1		7.20	60.300	0.08	62.10a	0.14	93.10a	0.155a	
						7.10	67.800	0.14	62.50a	0.13	98.70a	0.171a	
0832	31	01	0	1		14.40	70.300	0.10	67.90a	0.17a	41.60a	0.153a	
						12.70	77.600	0.07	52.40a	0.20a	88.40a	0.144	

a(23) > Exceeds CLASS-1 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry.weight basis**.  
 Locality : **90S Outer Orkdalsfjord**, Latitude: 63°27.40N, Longitude: 10°03.00E  
 Sample date: **871019**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/Year. Unfractionated sample unless "\*" then <63µm.

Seq. no.	Water depth m	Core depth cm	Sub Slice-depth no upper lower	Analytical Lab.		NIVA		NIVA		NIVA		NIVA	
				Code	Detection Limit	390	352	351	350	352	351	352	351
						1.0	0.001	0.01	0.01	0.01	0.05	0.0001	0.0001
						<b>COBG</b>	<b>Al</b>	<b>Cd</b>	<b>Cu</b>	<b>Hg</b>	<b>Pb</b>	<b>Zn</b>	
						ppt	ppt	ppm	ppm	ppm	ppm	ppt	
0901	29	01	0	1		10.00	67.900	0.06	51.70a	0.14	89.70a	0.148	
						9.86	70.000	0.05	53.60a	0.14	71.40a	0.154a	
						10.30	64.900	0.06	56.20a	0.12	71.80a	0.159a	
						9.70	69.700	0.06	56.10a	0.16a	132.30c	0.160a	
0902	20	01	0	1		11.00	63.200	0.05	49.20a	0.14	33.70a	0.154a	
						10.70	65.000	0.06	49.00a	0.13	84.90a	0.157a	
						9.55	64.000	0.05	55.20a	0.13	71.40a	0.159a	
						9.73	70.700	0.06	54.70a	0.08	121.10c	0.168a	

a(22) > Exceeds CLASS-1 limit.

c( 2) > Exceeds CLASS-3 limit.

Sample.area: J65 Orkdalsfjorden. All concentrations on **Dry-weight basis.**  
 Locality : 905 Outer Orkdalsfjord, Latitude: 63°27.40N, Longitude: 10°03.00E  
 Sample date: 9 20 830 , Sampling Lab: NIVA, Type: GC, Diameter: Ø50  
 Est. sedimentation rate : mm/year. Unfractionated sample unless \*\*\* then <63µm.

Seq. no.	depth	Lrgt	no	upper	lower	no.	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	WKID	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	Σ(*)	Σ(*)	NIVA	NIVA	Σ(*)	Σ(*)	NIVA	NIVA	Seq. no.	depth	Lrgt	no	upper	lower										
	m	cm		cm	cm																																															
0901	494	36	01	0	2																																															
0902	494	28	01	0	2																																															
0903	494	23	01	0	1																																															
0904	492	46	01	0	1																																															
0905	492	22	01	0	1																																															
0906	492	27	01	0	1																																															

s (35) ! Suspect value(s)  
 miss( 9) ! Missing value.  
 a (52) > Exceeds CLASS-1 limit.



Tab.width cont'd J65, 90S Outer Orkdalsfjord, 920830.

Seq. no.	Water depth	Core depth	Sub slice-depth	Analysis Code	Detection Limit	Chr	BBF	BJKF	BEP	BAP	PER	ICDP	DRA3A	BGHIP	COR	DBP	DJ	PA	PK	PAHEE	Σ(*)	Σ(*)	Σ(*)	Σ(*)	Σ(*)	
	m	cm	no	cm	cm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
0901	494	36	01	0	2	108.00	44.00	44.00	44.00	32.00a	39.00	46.00	5.00	43.00	<1.00	<1.00	<496.00	<249.00	<496.00	<496.00	<496.00	<496.00	<496.00	<496.00	<496.00a	
			02	30	35	27.00	miss	<1.00	<1.00	4.00	34.00	12.00	1.00	16.00	<1.00	<1.00	<127.00	s<48.00	s<127.00	s<127.00	s<127.00	s<127.00	s<127.00	s<127.00	s<127.00	
0902	494	28	01	0	2	19.00	33.00	30.00	30.00	22.00a	42.00	43.00	5.00	43.00	<1.00	<1.00	<393.00	<195.00	<393.00	<195.00	<393.00	<195.00	<393.00	<195.00	s<413.00a	
			02	22	27	17.00	63.00	23.00	23.00	23.00a	73.00	38.00	4.00	40.00	<1.00	<1.00	<377.00	<166.00	<377.00	<166.00	<377.00	<166.00	<377.00	<166.00	s<377.00a	
0903	494	23	01	0	1																					
0904	492	46	01	0	1																					
			02	1	2																					
			03	2	4																					
			04	4	6																					
			05	6	10																					
			06	10	15																					
			07	15	20																					
			08	40	45																					
0905	492	22	01	0	1																					
			02	1	2																					
			03	2	4																					
			04	4	6																					
			05	6	10																					
			06	10	15																					
			07	15	20																					
0906	492	27	01	0	1																					
			02	1	2																					
			03	2	3																					
			04	3	4																					
			05	5	6																					
			06	8	9																					
			07	13	14																					
			08	17	18																					
			09	21	22																					
			10	26	27																					







Tab.width cont'd J99, 93S Raudøya (northeast of), 920829.

Seq. no.	Water depth	Core Lngt	Sub slice-depth	no upper	Lower	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	Σ(*)	Σ(*)	Σ(*)	Σ(*)	Σ(*)		
no.	depth	in	cm	cm	cm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
0931	239	27	01	0	2	12.00	55.00	15.00	18.00	15.00	8.00	43.00	6.00	29.00	29.00	6.00	29.00	6.00	29.00	6.00	29.00	6.00	29.00	6.00
0932	237	25	01	0	2	12.00	46.00	18.00	18.00	12.00a	7.00	33.00	4.00	31.00	31.00	4.00	31.00	4.00	31.00	4.00	31.00	4.00	31.00	4.00
0933	237	36	01	0	1																			
0934	236	23	01	0	1																			
			02	1	2																			
			03	2	4																			
			04	4	6																			
			05	6	10																			
			06	10	15																			
			07	15	20																			
			08	20	22																			
0935	236	23	01	0	1																			
			02	1	2																			
			03	2	4																			
			04	4	6																			
			05	6	10																			
			06	10	15																			
			07	15	20																			
			08	20	22																			
			09	25	26																			
			31	31	32																			
0936	238	24	01	20	23	10.00	s68.00	miss	miss	18.00	13.00a	53.00	5.00	48.00	48.00	5.00	48.00	5.00	48.00	5.00	48.00	5.00	48.00	5.00
0937	238	24	01	20	23	2.00	s14.00	miss	miss	<1.00	<1.00	6.00	<1.00	9.00	9.00	<1.00	9.00	<1.00	9.00	<1.00	9.00	<1.00	9.00	<1.00
0938	238	41	01	0	1																			
			02	1	2																			
			03	2	3																			
			04	3	4																			
			05	5	6																			
			06	6	9																			
			07	13	14																			
			08	25	26																			
			09	31	32																			





Tab.width cont'd J99, 955 Rodø (east of), 920827.

	Analysis Code:	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	Σ(*)	Σ(*)	Σ(*)	Σ(*)
. . .	296	01	0	2	18.00	s57.00	miss	15.00	369	369	17.00a	369	369	1.00	1.00
. . .	296	01	0	2	10.00	s90.00	miss	36.00	12.00a	369	369	1.00	1.00	369	369
. . .	296	01	0	1						1.00	1.00	1.00	1.00	1.00	1.00
. . .	289	01	0	1						1.00	1.00	1.00	1.00	1.00	1.00
. . .		02	1	2											
. . .		03	2	4											
. . .		04	4	6											
. . .		05	6	10											
. . .		06	10	15											
. . .		07	15	20											
. . .		08	20	25											
. . .		09	25	30											
0951	296	01	0	2	5.00	s16.00	miss	<1.00	1.00	1.00	1.00	8.00	4.00	3.00	1.00
0952	296	01	15	20	3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
0953	296	01	25	30											
0954	296	01	0	1											
. . .		02	1	2											
. . .		03	2	4											
. . .		04	4	6											
. . .		05	6	10											
. . .		06	10	15											
. . .		07	15	20											
. . .		08	20	25											
. . .		09	25	30											
0955	296	01	15	20											
0956	296	01	25	30											
0957	296	01	0	1											
. . .		02	1	2											
. . .		03	2	4											
. . .		04	4	6											
. . .		05	6	10											
. . .		06	10	15											
. . .		07	15	20											
. . .		08	20	25											
0958	294	27	01	0											
. . .		02	1	2											
. . .		03	2	3											
. . .		04	3	4											
. . .		05	4	5											
. . .		06	5	6											
. . .		07	8	9											
. . .		08	12	14											
. . .		09	18	20											
. . .		10	24	26											



## Tab.width cont'd J99, 99S Lundyø (north of), 920826.

Seq. no.	Water depth no. depth	Lrgt		m		cm		Analysis Code.	Detection Limit	NIVA		Σ(*)		HC <sub>Σ3</sub>		HC <sub>Σ7</sub>		HC <sub>Σ13</sub>		HC <sub>Σ17</sub>		HC <sub>Σ21</sub>		HC <sub>Σ27</sub>		HC <sub>Σ31</sub>		HC <sub>Σ37</sub>		HC <sub>Σ42</sub>		HC <sub>Σ47</sub>		HC <sub>Σ54</sub>		HC <sub>Σ60</sub>		HC <sub>Σ66</sub>		HC <sub>Σ72</sub>		HC <sub>Σ78</sub>		HC <sub>Σ84</sub>		HC <sub>Σ90</sub>		HC <sub>Σ96</sub>		HC <sub>Σ102</sub>		HC <sub>Σ108</sub>		HC <sub>Σ114</sub>		HC <sub>Σ120</sub>		HC <sub>Σ126</sub>		HC <sub>Σ132</sub>		HC <sub>Σ138</sub>		HC <sub>Σ144</sub>		HC <sub>Σ150</sub>		HC <sub>Σ156</sub>		HC <sub>Σ162</sub>		HC <sub>Σ168</sub>		HC <sub>Σ174</sub>		HC <sub>Σ180</sub>		HC <sub>Σ186</sub>		HC <sub>Σ192</sub>		HC <sub>Σ198</sub>		HC <sub>Σ204</sub>		HC <sub>Σ210</sub>		HC <sub>Σ216</sub>		HC <sub>Σ222</sub>		HC <sub>Σ228</sub>		HC <sub>Σ234</sub>		HC <sub>Σ240</sub>		HC <sub>Σ246</sub>		HC <sub>Σ252</sub>		HC <sub>Σ258</sub>		HC <sub>Σ264</sub>		HC <sub>Σ270</sub>		HC <sub>Σ276</sub>		HC <sub>Σ282</sub>		HC <sub>Σ288</sub>		HC <sub>Σ294</sub>		HC <sub>Σ300</sub>		HC <sub>Σ306</sub>		HC <sub>Σ312</sub>		HC <sub>Σ318</sub>		HC <sub>Σ324</sub>		HC <sub>Σ330</sub>		HC <sub>Σ336</sub>		HC <sub>Σ342</sub>		HC <sub>Σ348</sub>		HC <sub>Σ354</sub>		HC <sub>Σ360</sub>		HC <sub>Σ366</sub>		HC <sub>Σ372</sub>		HC <sub>Σ378</sub>		HC <sub>Σ384</sub>		HC <sub>Σ390</sub>		HC <sub>Σ396</sub>		HC <sub>Σ402</sub>		HC <sub>Σ408</sub>		HC <sub>Σ414</sub>		HC <sub>Σ420</sub>		HC <sub>Σ426</sub>		HC <sub>Σ432</sub>		HC <sub>Σ438</sub>		HC <sub>Σ444</sub>		HC <sub>Σ450</sub>		HC <sub>Σ456</sub>		HC <sub>Σ462</sub>		HC <sub>Σ468</sub>		HC <sub>Σ474</sub>		HC <sub>Σ480</sub>		HC <sub>Σ486</sub>		HC <sub>Σ492</sub>		HC <sub>Σ498</sub>		HC <sub>Σ504</sub>		HC <sub>Σ510</sub>		HC <sub>Σ516</sub>		HC <sub>Σ522</sub>		HC <sub>Σ528</sub>		HC <sub>Σ534</sub>		HC <sub>Σ540</sub>		HC <sub>Σ546</sub>		HC <sub>Σ552</sub>		HC <sub>Σ558</sub>		HC <sub>Σ564</sub>		HC <sub>Σ570</sub>		HC <sub>Σ576</sub>		HC <sub>Σ582</sub>		HC <sub>Σ588</sub>		HC <sub>Σ594</sub>		HC <sub>Σ600</sub>		HC <sub>Σ606</sub>		HC <sub>Σ612</sub>		HC <sub>Σ618</sub>		HC <sub>Σ624</sub>		HC <sub>Σ630</sub>		HC <sub>Σ636</sub>		HC <sub>Σ642</sub>		HC <sub>Σ648</sub>		HC <sub>Σ654</sub>		HC <sub>Σ660</sub>		HC <sub>Σ666</sub>		HC <sub>Σ672</sub>		HC <sub>Σ678</sub>		HC <sub>Σ684</sub>		HC <sub>Σ690</sub>		HC <sub>Σ696</sub>		HC <sub>Σ702</sub>		HC <sub>Σ708</sub>		HC <sub>Σ714</sub>		HC <sub>Σ720</sub>		HC <sub>Σ726</sub>		HC <sub>Σ732</sub>		HC <sub>Σ738</sub>		HC <sub>Σ744</sub>		HC <sub>Σ750</sub>		HC <sub>Σ756</sub>		HC <sub>Σ762</sub>		HC <sub>Σ768</sub>		HC <sub>Σ774</sub>		HC <sub>Σ780</sub>		HC <sub>Σ786</sub>		HC <sub>Σ792</sub>		HC <sub>Σ798</sub>		HC <sub>Σ804</sub>		HC <sub>Σ810</sub>		HC <sub>Σ816</sub>		HC <sub>Σ822</sub>		HC <sub>Σ828</sub>		HC <sub>Σ834</sub>		HC <sub>Σ840</sub>		HC <sub>Σ846</sub>		HC <sub>Σ852</sub>		HC <sub>Σ858</sub>		HC <sub>Σ864</sub>		HC <sub>Σ870</sub>		HC <sub>Σ876</sub>		HC <sub>Σ882</sub>		HC <sub>Σ888</sub>		HC <sub>Σ894</sub>		HC <sub>Σ900</sub>		HC <sub>Σ906</sub>		HC <sub>Σ912</sub>		HC <sub>Σ918</sub>		HC <sub>Σ924</sub>		HC <sub>Σ930</sub>		HC <sub>Σ936</sub>		HC <sub>Σ942</sub>		HC <sub>Σ948</sub>		HC <sub>Σ954</sub>		HC <sub>Σ960</sub>		HC <sub>Σ966</sub>		HC <sub>Σ972</sub>		HC <sub>Σ978</sub>		HC <sub>Σ984</sub>		HC <sub>Σ990</sub>		HC <sub>Σ996</sub>		HC <sub>Σ1002</sub>		HC <sub>Σ1008</sub>		HC <sub>Σ1014</sub>		HC <sub>Σ1020</sub>		HC <sub>Σ1026</sub>		HC <sub>Σ1032</sub>		HC <sub>Σ1038</sub>		HC <sub>Σ1044</sub>		HC <sub>Σ1050</sub>		HC <sub>Σ1056</sub>		HC <sub>Σ1062</sub>		HC <sub>Σ1068</sub>		HC <sub>Σ1074</sub>		HC <sub>Σ1080</sub>		HC <sub>Σ1086</sub>		HC <sub>Σ1092</sub>		HC <sub>Σ1098</sub>		HC <sub>Σ1104</sub>		HC <sub>Σ1110</sub>		HC <sub>Σ1116</sub>		HC <sub>Σ1122</sub>		HC <sub>Σ1128</sub>		HC <sub>Σ1134</sub>		HC <sub>Σ1140</sub>		HC <sub>Σ1146</sub>		HC <sub>Σ1152</sub>		HC <sub>Σ1158</sub>		HC <sub>Σ1164</sub>		HC <sub>Σ1170</sub>		HC <sub>Σ1176</sub>		HC <sub>Σ1182</sub>		HC <sub>Σ1188</sub>		HC <sub>Σ1194</sub>		HC <sub>Σ1200</sub>		HC <sub>Σ1206</sub>		HC <sub>Σ1212</sub>		HC <sub>Σ1218</sub>		HC <sub>Σ1224</sub>		HC <sub>Σ1230</sub>		HC <sub>Σ1236</sub>		HC <sub>Σ1242</sub>		HC <sub>Σ1248</sub>		HC <sub>Σ1254</sub>		HC <sub>Σ1260</sub>		HC <sub>Σ1266</sub>		HC <sub>Σ1272</sub>		HC <sub>Σ1278</sub>		HC <sub>Σ1284</sub>		HC <sub>Σ1290</sub>		HC <sub>Σ1296</sub>		HC <sub>Σ1302</sub>		HC <sub>Σ1308</sub>		HC <sub>Σ1314</sub>		HC <sub>Σ1320</sub>		HC <sub>Σ1326</sub>		HC <sub>Σ1332</sub>		HC <sub>Σ1338</sub>		HC <sub>Σ1344</sub>		HC <sub>Σ1350</sub>		HC <sub>Σ1356</sub>		HC <sub>Σ1362</sub>		HC <sub>Σ1368</sub>		HC <sub>Σ1374</sub>		HC <sub>Σ1380</sub>		HC <sub>Σ1386</sub>		HC <sub>Σ1392</sub>		HC <sub>Σ1398</sub>		HC <sub>Σ1404</sub>		HC <sub>Σ1410</sub>		HC <sub>Σ1416</sub>		HC <sub>Σ1422</sub>		HC <sub>Σ1428</sub>		HC <sub>Σ1434</sub>		HC <sub>Σ1440</sub>		HC <sub>Σ1446</sub>		HC <sub>Σ1452</sub>		HC <sub>Σ1458</sub>		HC <sub>Σ1464</sub>		HC <sub>Σ1470</sub>		HC <sub>Σ1476</sub>		HC <sub>Σ1482</sub>		HC <sub>Σ1488</sub>		HC <sub>Σ1494</sub>		HC <sub>Σ1500</sub>		HC <sub>Σ1506</sub>		HC <sub>Σ1512</sub>		HC <sub>Σ1518</sub>		HC <sub>Σ1524</sub>		HC <sub>Σ1530</sub>		HC <sub>Σ1536</sub>		HC <sub>Σ1542</sub>		HC <sub>Σ1548</sub>		HC <sub>Σ1554</sub>		HC <sub>Σ1560</sub>		HC <sub>Σ1566</sub>		HC <sub>Σ1572</sub>		HC <sub>Σ1578</sub>		HC <sub>Σ1584</sub>		HC <sub>Σ1590</sub>		HC <sub>Σ1596</sub>		HC <sub>Σ1602</sub>		HC <sub>Σ1608</sub>		HC <sub>Σ1614</sub>		HC <sub>Σ1620</sub>		HC <sub>Σ1626</sub>		HC <sub>Σ1632</sub>		HC <sub>Σ1638</sub>		HC <sub>Σ1644</sub>		HC <sub>Σ1650</sub>		HC <sub>Σ1656</sub>		HC <sub>Σ1662</sub>		HC <sub>Σ1668</sub>		HC <sub>Σ1674</sub>		HC <sub>Σ1680</sub>		HC <sub>Σ1686</sub>		HC <sub>Σ1692</sub>		HC <sub>Σ1698</sub>		HC <sub>Σ1704</sub>		HC <sub>Σ1710</sub>		HC <sub>Σ1716</sub>		HC <sub>Σ1722</sub>		HC <sub>Σ1728</sub>		HC <sub>Σ1734</sub>		HC <sub>Σ1740</sub>		HC <sub>Σ1746</sub>		HC <sub>Σ1752</sub>		HC <sub>Σ1758</sub>		HC <sub>Σ1764</sub>		HC <sub>Σ1770</sub>		HC <sub>Σ1776</sub>		HC <sub>Σ1782</sub>		HC <sub>Σ1788</sub>		HC <sub>Σ1794</sub>		HC <sub>Σ1800</sub>		HC <sub>Σ1806</sub>		HC <sub>Σ1812</sub>		HC <sub>Σ1818</sub>		HC <sub>Σ1824</sub>		HC <sub>Σ1830</sub>		HC <sub>Σ1836</sub>		HC <sub>Σ1842</sub>		HC <sub>Σ1848</sub>		HC <sub>Σ1854</sub>		HC <sub>Σ1860</sub>		HC <sub>Σ1866</sub>		HC <sub>Σ1872</sub>		HC <sub>Σ1878</sub>		HC <sub>Σ1884</sub>		HC <sub>Σ1890</sub>		HC <sub>Σ1896</sub>		HC <sub>Σ1902</sub>		HC <sub>Σ1908</sub>		HC <sub>Σ1914</sub>		HC <sub>Σ1920</sub>		HC <sub>Σ1926</sub>		HC <sub>Σ1932</sub>		HC <sub>Σ1938</sub>		HC <sub>Σ1944</sub>		HC <sub>Σ1950</sub>		HC <sub>Σ1956</sub>		HC <sub>Σ1962</sub>		HC <sub>Σ1968</sub>		HC <sub>Σ1974</sub>		HC <sub>Σ1980</sub>		HC <sub>Σ1986</sub>		HC <sub>Σ1992</sub>		HC <sub>Σ1998</sub>		HC <sub>Σ2004</sub>		HC <sub>Σ2010</sub>		HC <sub>Σ2016</sub>		HC <sub>Σ2022</sub>		HC <sub>Σ2028</sub>		HC <sub>Σ2034</sub>		HC <sub>Σ2040</sub>		HC <sub>Σ2046</sub>		HC <sub>Σ2052</sub>		HC <sub>Σ2058</sub>		HC <sub>Σ2064</sub>		HC <sub>Σ2070</sub>		HC <sub>Σ2076</sub>		HC <sub>Σ2082</sub>		HC <sub>Σ2088</sub>		HC <sub>Σ2094</sub>		HC <sub>Σ2100</sub>		HC <sub>Σ2106</sub>		HC <sub>Σ2112</sub>		HC <sub>Σ2118</sub>		HC <sub>Σ2124</sub>		HC <sub>Σ2130</sub>		HC <sub>Σ2136</sub>		HC <sub>Σ2142</sub>		HC <sub>Σ2148</sub>		HC <sub>Σ2154</sub>		HC <sub>Σ2160</sub>		HC <sub>Σ2166</sub>		HC <sub>Σ2172</sub>		HC <sub>Σ2178</sub>		HC <sub>Σ2184</sub>		HC <sub>Σ2190</sub>		HC <sub>Σ2196</sub>		HC <sub>Σ2202</sub>		HC <sub>Σ2208</sub>		HC <sub>Σ2214</sub>		HC <sub>Σ2220</sub>		HC <sub>Σ2226</sub>		HC <sub>Σ2232</sub>		HC <sub>Σ2238</sub>		HC <sub>Σ2244</sub>		HC <sub>Σ2250</sub>		HC <sub>Σ2256</sub>		HC <sub>Σ2262</sub>		HC <sub>Σ2268</sub>		HC <sub>Σ2274</sub>		HC <sub>Σ2280</sub>		HC <sub>Σ2286</sub>		HC <sub>Σ2292</sub>		HC <sub>Σ2298</sub>		HC 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Tab.width cont'd J99, 99S Lundøy (north of), 920826.

Seq. no.	Water depth m	Core slice no	Depth cm	Analytical Lab.	Detection Limit	NIVA		NIVA		NIVA		NIVA		NIVA		NIVA		NIVA		Σ(*)	Σ(*)	Σ(*)	Σ(*)
						miss	ppb	miss	ppb	miss	ppb	miss	ppb	miss	ppb	miss	ppb	miss	ppb				
0991	467	39	01	0	2	9.00	miss	miss	miss	24.00	4.00	14.00	369	369	369	369	369	369	<1.00	<1.00	<32.00	s<196.00	
0992	467	40	01	0	2	2.00	<1.00	<1.00	<1.00	14.00	1.00	10.00	369	369	369	369	369	369	<1.00	<1.00	<18.00	s<182.00	
0993	467	37	01	0	1	.	.	.	.	.	.	.	miss	miss	miss	miss	miss	miss	.	.	.	.	
0994	467	41	01	0	1	.	.	.	.	.	.	.	miss	miss	miss	miss	miss	miss	.	.	.	.	
		02	1	2	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		03	2	4	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		04	4	6	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		05	6	10	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		06	10	15	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		07	15	20	35	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		08	35	40	40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
0995	467	37	01	0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		02	1	2	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		03	2	4	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		04	4	6	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		05	6	10	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		06	10	15	15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		07	15	20	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		08	31	36	36	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
0996	467	43	01	37	42	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
0997	467	41	01	35	40	2.00	2.00	2.00	2.00	3.00	<1.00	1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
0998	467	39	01	0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		02	1	2	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		03	2	3	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		04	3	4	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		05	4	5	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		06	5	6	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		07	8	9	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		08	13	14	14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		09	19	20	20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		09	25	26	26	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	



Tab. width cont'd J99, 98S Skrova (south of), 920825.

Seq. no.	Water depth	Core depth	Slice	depth	no. upper	Lower	NIVA	Σ(*)	NIVA	HCB	QCB	OCS	NAP	NAP2M	NAP1M	BIPN	NAPDI	NAPIM	NIVA	ACNE	FILE	PA	ANT	PAMI	NIVA	FLU	PYR	NIVA	369	369	369	369	369	369							
0981	320	26	01	0	2	0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	7.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	6.00	<1.00	<1.00	<1.00	<1.00	11.00	9.00	1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00					
0982	320	30	01	0	2	0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	11.00	9.00	1.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00				
0983	320	36	01	0	1	0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
0984	320	27	01	0	1	0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
		02	1	2																																					
		05	2	4																																					
		04	4	6																																					
		05	6	10																																					
		06	10	15																																					
		07	15	20																																					
		08	20	27																																					
0985	320	32	01	0	1	0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
		02	1	2																																					
		03	2	4																																					
		04	4	6																																					
		05	6	10																																					
		06	10	15																																					
		07	15	20																																					
		08	20	27																																					
0986	320	34	01	29	34	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
0987	320	29	01	24	28	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
0988	320	36	01	0	1	0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
		02	1	2																																					
		03	2	3																																					
		04	5	6																																					
		05	7	8																																					
		06	8	9																																					
		07	19	20																																					
		08	25	26																																					
		09	31	32																																					

Tab.width cont'd J99, 98S Skrova (south of), 920825.

Seq. no.	Water depth	Core depth	Sub slice-depth	Upper	Lower		NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	NIVA	Σ(*)	Σ(*)	Σ(*)	Σ(*)	Σ(*)
no.	m	cm	no	cm	cm		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
0981	320	26	01	0	2		3.00	s18.00	<1.00	4.00	<1.00	2.00	<1.00	5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	s<8.00	s<63.00	s<28.00	s<70.00	
0982	320	30	01	0	2		6.00	s20.00	<1.00	7.00	<1.00	5.00	<1.00	7.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	s<1.00	s<103.00	s<38.00	s<103.00	
0983	320	36	01	0	1		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0984	320	27	01	0	1		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			02	1	2		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			03	2	4		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			04	4	6		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			05	6	10		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			06	10	15		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			07	15	20		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			08	20	27		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0985	320	32	01	0	1		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			02	1	2		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			03	2	4		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			04	4	6		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			05	6	10		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			06	10	15		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			07	15	20		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			08	20	27		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0986	320	34	01	29	34		2.00	1.00	1.00	2.00	3.00	3.00	<1.00	1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	s<1.00	<19.00	<8.00	<19.00	
0987	320	29	01	24	28		1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	s<61.00	<15.00	<1.00	s<75.00	
0988	320	36	01	0	1		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			02	1	2		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			03	2	3		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			04	5	6		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			05	7	8		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			06	8	9		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			07	19	20		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			08	25	26		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			09	31	32		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

**Annex B**  
**Sediment 1986-92**  
**Parallel mean and standard deviation**

08/02-95

REPORT INFORMATION : " S E D I M E N T " .

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----- : -----
Table-File-Name      : I:\TBX\JMG\SED\TAB-1SED.TB1
Limit-CheckFile     : )LIM\NI941013.SED
Weight basis        : "DRY.weight".
Table SORT-Mode     : 1. LOCALITY-index
                     :   1.1: Sampling Lab = NIVA
                       :       (Predefined sequence)
                     :   1.2: OTHER Sampling Labs
                       :       (Position North:South,
                       :       and West:East)
                     : 2. Sample DATE.
                     : 3. Tables may be separated into
                       :   to "variable-groupes" tested
                       :   as: Subno = 0 and Subno > 0
----- : -----

```

NOTES :

NB ! The numeric values shown have been printed with a FIXED number of digits, and do not necessarily indicate analytical precision.

For " $\Sigma$ " variables (e.g. CB\_ $\Sigma$ 7, DD\_ $\Sigma$ ), all the "<"-values (less than the detection limits) are counted only once. If two or more different "<"-values are present, the maximum of the least questionable (suspect) "<"-value is used. Any missing " $\Sigma$ "-elements are ignored.

If value is prefixed "<<", the number of "<" values is greater or equal to 25% of computed observations. Standard Deviation values are prefixed the character "~" if any "<" values are included.

Footnotes consist of 4 parts:

1: a letter code (e.g ? or s)

The letter code may include one or more characters indicating possible matching letters referenced before or after numbers.

2: a count (in paranthesis)

3: a "!" or ">"

"!" refer to notes BEFORE numeric values.

">" refer to notes AFTER numeric values.

4: The footnote explanation.

Sample.area: **J26 Oslofjorden**. All concentrations on **Dry.weight basis**.  
 Locality : **30S Steilene**, Latitude: 59°49.10N, Longitude: 10°33.80E  
 Sample date: **861029** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "u" then <63µm.

Slice.Depth cm up:lower		<b>CORG</b> ppt	<b>Cd</b> ppm	<b>Cu</b> ppm	<b>Hg</b> ppm	<b>Pb</b> ppm	<b>Zn</b> ppt
00:001	Count	2	4	4	4	4	4
	Mean	28.85	0.13	54.48a	0.56a	122.47c	0.031
	St.dev	2.90	0.04	6.94	0.20	17.51	0.003
01:002	Count	.	4	4	4	4	4
	Mean	.	0.17	53.72a	0.55a	115.74a	0.031
	St.dev	.	0.03	9.50	0.23	18.66	0.004

a(5) > Exceeds CLASS-1 limit.  
 c(1) > Exceeds CLASS-3 limit.

Sample-area: J26 Oslofjorden. All concentrations on Dry-weight basis.  
 Locality : 30S Steilene, Latitude: 59°49.10N, Longitude: 10°33.80E  
 Sample date: 901107, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 003 mm/year. Unfractionated sample unless "x" then <63µm.

Slice.Depth cm up:lower	GSAMT %<63µ	MOCON %	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt	Pb210 mBq/g
00:001	Count 98.57	1	28.15	2	0.08	2	0.87c	2	0.325a	.
	Mean	.	1.63	0.000	0.06	52.95a	0.13	91.50a	0.035	.
	St.dev	.	1	1	1	29.34	1	1	1	.
00:002	Count	1	27.80	75.800	0.06	33.70	0.74c	85.50a	0.340a	73.00
	Mean	1	2	2	2	2	2	2	2	.
	St.dev	1	27.90	74.650	0.08	65.20a	0.95c	94.45a	0.350a	.
01:002	Count	1	3.39	0.636	0.00	23.33	0.24	14.92	0.057	.
	Mean	1	2	2	2	2	2	2	2	.
	St.dev	1	23.45	78.350	0.14	59.55a	0.79c	85.55a	0.305a	91.33
02:004	Count	1	7.00	2.616	0.01	28.50	0.54	34.58	0.106	.
	Mean	1	2	2	2	2	2	2	2	.
	St.dev	1	22.35	81.050	0.13	59.75a	0.65c	78.15a	0.285a	61.33
04:006	Count	1	10.68	5.445	0.01	43.20	0.71	60.60	0.163	.
	Mean	1	.	.	.	.	.	.	.	53.50
	St.dev	1	63.46	.	.	.	.	.	.	.
06:008	Count	1	2	2	2	2	2	2	2	.
	Mean	1	20.85	78.900	0.19	52.95a	0.64c	76.30a	0.275a	.
	St.dev	1	10.11	2.546	0.03	38.11	0.82	63.22	0.177	.
08:010	Count	1	.	.	.	.	.	.	.	miss
	Mean	1	62.19	.	.	.	.	.	.	1
	St.dev	1	60.26	.	.	.	.	.	.	23.00
10:012	Count	1	2	2	2	2	2	2	2	.
	Mean	1	17.20	81.600	0.17	36.05a	0.37a	50.30a	0.215a	.
	St.dev	1	4.67	2.121	0.12	14.78	0.47	31.82	0.106	.
10:015	Count	1	.	.	.	.	.	.	.	miss
	Mean	1	59.73	.	.	.	.	.	.	1
	St.dev	1	59.50	.	.	.	.	.	.	-1.67
12:014	Count	1	2	2	2	2	2	2	2	.
	Mean	1	13.90	85.750	0.12	28.30	0.04	38.50a	0.165a	.
	St.dev	1	1.41	1.768	0.00	3.96	0.01	15.56	0.021	.
14:016	Count	1	.	.	.	.	.	.	.	miss
	Mean	1	60.00	.	.	.	.	.	.	1
	St.dev	1	59.68	.	.	.	.	.	.	1.33
15:020	Count	1	58.87	.	.	.	.	.	.	miss
	Mean	1	57.90	.	.	.	.	.	.	miss
	St.dev	1	57.21	.	.	.	.	.	.	miss
16:018	Count	1	56.51	.	.	.	.	.	.	miss
	Mean	1	54.33	.	.	.	.	.	.	0.83
	St.dev	1	55.99	.	.	.	.	.	.	miss
18:020	Count	1	56.25	.	.	.	.	.	.	-1.33
	Mean	1	.	.	.	.	.	.	.	1
	St.dev	1	.	.	.	.	.	.	.	0.50
20:022	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.
22:024	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.
24:026	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.
26:028	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.
28:030	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.
30:032	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.
32:034	Count	1	.	.	.	.	.	.	.	.
	Mean	1	.	.	.	.	.	.	.	.
	St.dev	1	.	.	.	.	.	.	.	.

miss (7) | Missing value.  
 a (23) > Exceeds CLASS-1 limit.  
 c (6) > Exceeds CLASS-3 limit.



Sample.area: J26 Oslofjorden. All concentrations on Dry-weight basis.

Locality : 30S Steilene, Latitude: 59°49.10N, Longitude: 10°35.80E  
 Sample date: 901107, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 003 mm/year. Unfractionated sample unless <sup>mm</sup> then <63µm.

Slice-Depth cm up:lower	CB28 ppb	CB31 ppb	CB52 ppb	CB101 ppb	CB105 ppb	CB118 ppb	CB128 ppb	CB138 ppb	CB149 ppb	CB153 ppb	CB156 ppb	CB170 ppb	CB180 ppb	CB_Σ7 ppb	CB_ΣΣ ppb	DBOP ppb	DBEPP ppb	DDTOP ppb	DDTTP ppb	TDROP ppb	TDPEPP ppb	DD_ΣΣ ppb
00:002 Count Mean St.dev	2 0.81 0.19	2 0.55 0.21	2 1.30 0.35	2 1.64 0.13	2 1.35 0.03	2 2.36 0.19	2 0.67 0.03	2 3.34 0.60	2 2.18 0.35	2 2.49 0.76	2 0.28 0.08	2 0.66 0.04	2 1.34 0.18	2 13.27c 1.80	2 18.95 2.36	2 1.11 0.06	2 1.18 0.13	2 <<0.05 0.00	2 2.72 2.55	2 0.66 0.29	2 1.33 0.45	2 <<7.04 3.16

a(2) > Exceeds CLASS-1 limit.  
 c(2) > Exceeds CLASS-3 limit.

Tab.width cont'd J26, 30S Steilene, 901107.

Slice-Depth cm up:lower	HCHA ppb	HCHB ppb	HCHG ppb	HC ppb	E3 ppb	HCB ppb	ALD ppb	NAP ppb	NAP1 ppb	NAP2 ppb	NAP3 ppb	FILE ppb	PA ppb	ANT ppb	DBT ppb	PAC1 ppb	DBIC1 ppb	FLU ppb	PYR ppb	PAC2 ppb	DBIC2 ppb	DBIC3 ppb	BAA ppb	CHR ppb
00:002 Count Mean St.dev	2 0.16 0.00	2 0.31 0.28	2 0.20 0.01	2 0.67 0.28	2 0.07 0.06	2 1.27a 0.40	2 2.12 0.06	2 14.50 2.12	2 20.50 3.54	2 38.00 9.90	2 36.00 7.07	2 12.50 3.54	2 67.50 17.68	2 32.00 12.73	2 9.00 2.83	2 83.50 17.68	2 11.50 3.54	2 139.50 47.38	2 154.00 45.25	2 59.00 11.31	2 13.50 3.54	2 24.00 4.24	2 85.50 51.82	2 102.50 27.58

Tab.width cont'd J26, 30S Steilene, 901107.

Slice-Depth cm up:lower	BBKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBAHA ppb	BGHP ppb	DI_ΣΣ ppb	PA_ΣΣ ppb	PK_ΣΣ ppb	PAHΣΣ ppb	SPAH ppb
00:002 Count Mean St.dev	2 254.00 53.74	2 121.50 31.82	2 80.00c 18.38	2 91.00 7.07	2 80.50 4.95	2 82.50 7.78	2 109.00 22.63	2 1518.50 338.70	2 515.00 108.89	2 1627.50a 361.3	2 1627.50a 361.3	2 1627.50a 361.3

Sample.area: J26 Oslofjorden. All concentrations on Dry-weight basis.

Locality : 35S Holmestrand-Mølen, Latitude: 59°30.00N, Longitude: 10°35.70E  
 Sample date: 861020, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless <sup>mm</sup> then <63µm.

Slice-Depth cm up:lower	CORG ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count Mean St.dev	4 17.20 0.66	4 0.08 0.01	4 32.50 1.73	4 0.21a 0.04	4 74.75a 5.74	4 0.168a 0.005
01:002 Count Mean St.dev	4 16.28 0.64	4 0.07 0.01	4 30.50 1.29	4 0.21a 0.03	4 76.00a 5.03	4 0.165a 0.007

a(6) > Exceeds CLASS-1 limit.

Sample.area: J26 Oslofjorden. All concentrations on Dry-weight basis.

Locality : 35S Holmestrand-Mølen, Latitude: 59°30.00N, Longitude: 10°35.70E  
 Sample date: 901107, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 002 mm/year. Unfractionated sample unless <sup>mm</sup> then <63µm.

Slice-Depth cm up:lower	GSAMT ppt	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:002 Count Mean St.dev	1 98.87 .	3 17.90 0.92	3 68.600 17.250	3 0.05 0.01	3 32.93 2.91	3 0.22a 0.05	3 62.57a 5.11	3 0.180a 0.010

a(3) > Exceeds CLASS-1 limit.

Sample.area: J26 Oslofjorden. All concentrations on Dry-weight basis.  
 Locality : 36S Fårder area, Latitude: 59°00.40N, Longitude: 10°41.60E  
 Sample date: 861020 , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless \*\*\* then <63µm.

Slice.Depth cm up:lower	CORG ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	4	4	4	4	4	4
Mean	16.95	0.06	20.25	0.13	65.75a	0.119
St.dev	0.39	0.01	0.50	0.01	0.96	0.001
01:002 Count	4	4	4	4	4	4
Mean	16.90	0.07	20.23	0.14	68.75a	0.122
St.dev	0.67	0.01	0.52	0.01	3.50	0.002

a(2) > Exceeds CLASS-1 limit.

Sample.area: J26 Oslofjorden. All concentrations on Dry-weight basis.  
 Locality : 36S Fårder area, Latitude: 59°00.40N, Longitude: 10°41.60E  
 Sample date: 900512, Sampling Lab: NIVA, Type: 6C, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "u" then <63µm.

Slice.Depth cm up:lower	GSAMT %<63µ	MOCON %	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt	Pb210 mbq/g
00:001	Count 99.30	1	2	2	2	2	2	2	2	2	.
	Mean	.	22.05	47.300	65.250	0.11	24.55	0.09	51.25a	0.125	.
	St.dev	.	0.49	4.667	2.475	0.01	2.05	0.01	1.77	0.007	.
00:002	Count	1	1	1	1	1	1	1	1	1	1
	Mean	99.56	75.37	47.900	64.000	0.10	21.90	0.12	52.50a	0.130	s51.67
	St.dev	1	2	2	.	2	2	2	2	2	.
01:002	Count	1	2	2	.	2	2	2	2	2	.
	Mean	99.74	22.55	52.850	.	0.08	24.00	0.09	30.35a	0.125	.
	St.dev	.	0.07	8.556	.	0.02	0.85	0.02	3.61	0.007	.
02:004	Count	1	2	2	2	2	2	2	2	2	.
	Mean	99.69	69.83	64.050	.	0.06	25.25	0.07	32.65a	0.130	miss
	St.dev	.	0.28	4.455	.	0.01	1.77	0.01	2.05	0.000	.
04:006	Count	1	2	2	2	2	2	2	2	2	1
	Mean	99.42	66.02	54.000	.	0.04	24.75	0.06	34.40a	0.140	s71.50
	St.dev	.	0.28	1.273	.	0.00	1.20	0.01	0.71	0.014	.
06:008	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	64.39	.	.	.	.	.	.	.	.
06:010	Count	1	2	2	2	2	2	2	2	2	.
	Mean	99.74	22.85	54.550	.	0.09	24.80	0.06	32.90a	0.135	.
	St.dev	.	0.21	3.748	.	0.02	0.00	0.01	2.55	0.007	.
08:010	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	64.52	.	.	.	.	.	.	.	s75.00
10:012	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	64.86	.	.	.	.	.	.	.	.
10:015	Count	1	2	2	2	2	2	2	2	2	.
	Mean	99.51	21.95	55.500	.	0.07	23.85	0.07	34.55a	0.130	.
	St.dev	.	1.06	8.202	.	0.01	0.21	0.02	0.64	0.000	.
12:014	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	64.38	.	.	.	.	.	.	.	s68.00
14:016	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	61.42	.	.	.	.	.	.	.	.
15:020	Count	1	2	2	2	2	2	2	2	2	.
	Mean	99.71	20.65	51.300	.	0.08	22.65	0.09	36.20a	0.135	.
	St.dev	.	0.78	3.960	.	0.01	0.49	0.01	2.55	0.007	.
16:018	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	62.01	.	.	.	.	.	.	.	s56.67
18:020	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	61.95	.	.	.	.	.	.	.	.
20:022	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	61.09	.	.	.	.	.	.	.	s58.33
22:024	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	62.48	.	.	.	.	.	.	.	.
24:026	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	62.11	.	.	.	.	.	.	.	s65.83
26:028	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	62.56	.	.	.	.	.	.	.	.
28:030	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	60.86	.	.	.	.	.	.	.	s64.67
30:032	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	60.89	.	.	.	.	.	.	.	.
32:034	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	62.04	.	.	.	.	.	.	.	s63.17
34:036	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	60.48	.	.	.	.	.	.	.	.
36:038	Count	.	1	.	.	.	.	.	.	.	miss
	Mean	.	60.09	.	.	.	.	.	.	.	.
38:040	Count	.	1	.	.	.	.	.	.	.	1
	Mean	.	60.56	.	.	.	.	.	.	.	s33.00

Tab.length cont'd J26, 36S Fårder area, 900512.

Slice.Depth cm up:lower	GSAMI %<63µ	MOON %	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppm	Pb210 mBq/g
38:040 St.dev	.	.	.	.	.	.	.	.	.	.	.
40:042 Count	1	1	.	.	.	.	.	.	.	.	.
Mean	61.44	.	.	.	.	.	.	.	.	.	miss
42:044 Count	1	1	.	.	.	.	.	.	.	.	1
Mean	59.50	.	.	.	.	.	.	.	.	.	44.67
44:046 Count	1	1	.	.	.	.	.	.	.	.	.
Mean	60.68	.	.	.	.	.	.	.	.	.	miss

s ( 9 ) ! Suspect value(s)  
 miss(12) ! Missing value.  
 a ( 8 ) > Exceeds CLASS-1 limit.

Sample area: J26 Oslofjorden. All concentrations on DRY-weight basis.  
 Locality : 36S Fårder area, Latitude: 59°00.40N, Longitude: 10°41.60E  
 Sample date: 900512, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless \*\*\* then <63µm.

Slice.Depth cm up:lower	CB28 ppb	CB31 ppb	CB52 ppb	CB101 ppb	CB105 ppb	CB118 ppb	CB128 ppb	CB138 ppb	CB149 ppb	CB153 ppb	CB156 ppb	CB170 ppb	CB180 ppb	CB Σ7 ppb	CB ΣΣ ppb	DDEOP ppb	DDEPP ppb	DDIOP ppb	DDIPP ppb	DDOPP ppb	DDPP ppb	DD ΣΣ ppb
00:002 Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Mean	0.61	0.38	0.41	0.93	0.53	1.10	0.28	1.53	0.75	1.18	0.07	0.21	0.39	6.15a	8.37	1.00	1.28	<0.05	0.33	0.32	1.04	<<4.02
St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.96	0.68	0.00	0.08	0.01	0.04	1.68

a(2) > Exceeds CLASS-1 limit.  
 c(2) > Exceeds CLASS-3 limit.

Tab.width cont'd J26, 36S Fårder area, 900512.

Slice.Depth cm up:lower	HCHA ppb	HCHB ppb	HCHG ppb	HC Σ3 ppb	HCB ppb	ALD ppb	NAP ppb	NAPC1 ppb	NAPC2 ppb	NAPC3 ppb	FLE ppb	PA ppb	ANT ppb	DBT ppb	PAC1 ppb	DBIC1 ppb	FLU ppb	PYR ppb	PAC2 ppb	DBIC2 ppb	DBIC3 ppb	BAA ppb	CHR ppb	
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean	0.22	0.31	0.27	0.79	0.65a	0.08	45.50	149.50	304.50	233.00	30.00	120.50	17.00	12.00	175.00	23.50	170.00	139.00	153.00	27.00	40.50	83.50	141.00	
St.dev	0.00	0.23	0.03	0.26	0.05	0.04	3.54	0.71	9.19	15.56	0.00	2.12	0.00	0.00	15.56	0.71	7.07	5.66	5.66	0.00	0.71	6.36	16.97	

Tab.width cont'd J26, 36S Fårder area, 900512.

Slice.Depth cm up:lower	BBKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBAHA ppb	BGHIP ppb	DI ΣΣ ppb	PA ΣΣ ppb	PK ΣΣ ppb	PARDE ppb	SPAH ppb
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2
Mean	334.00	135.50	110.50c	72.50	129.50	28.00	114.50	732.50	2056.50	685.50	2789.00c	2789.0
St.dev	19.80	6.36	4.95	3.54	2.12	1.41	6.36	20.51	92.63	34.65	72.12	72.1

Sample area: J99 Undefined. All concentrations on Dry weight basis.  
 Locality : 77S Arendal area, Latitude: 58°24.20N, Longitude: 09°01.80E  
 Sample date: 900510 , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 005 mm/year. Unfractionated sample unless "u" then <63µm.

Slice, Depth cm up: Lower	GSAMT %<63µ	MOCON %	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt	Pb210 mBq/g
00:001	Count 99.39	.	2 21.50	2 46.650	2 67.000	2 0.11	2 22.90	2 0.11	2 55.00a	2 0.125	.
	Mean	.	0.14	4.172	2.828	0.01	0.57	0.01	0.00	0.007	.
	St.dev	.	1	1	1	1	1	1	1	1	1
00:002	Count 98.70	69.36	2 21.20	2 47.800	2 66.500	2 0.10	2 22.40	2 0.10	2 55.00a	2 0.120	98.17
	Mean	.	22.20	48.450	.	0.08	23.95	0.11	33.00a	0.125	.
	St.dev	.	0.14	4.313	.	0.01	1.20	0.01	1.27	0.007	.
01:002	Count 99.40	.	2 22.20	2 48.450	.	2 0.08	2 23.95	2 0.11	2 33.00a	2 0.125	.
	Mean	.	2	2	.	2	2	2	2	2	.
	St.dev	.	2	2	.	2	2	2	2	2	.
02:004	Count 99.09	65.39	2 22.00	2 46.600	.	2 0.08	2 23.20	2 0.12	2 32.85a	2 0.125	miss
	Mean	.	0.00	0.707	.	0.01	0.85	0.03	0.07	0.007	.
	St.dev	.	2	2	.	2	2	2	2	2	1
04:006	Count 99.21	66.61	2 22.30	2 49.050	.	2 0.06	2 23.05	2 0.08	2 33.60a	2 0.125	99.00
	Mean	.	0.71	7.990	.	0.01	0.64	0.01	1.41	0.007	.
	St.dev	.	1	1	.	1	1	1	1	1	.
06:008	Count 99.71	65.15	.	.	.	.	.	.	.	.	miss
	Mean	.	2	2	.	2	2	2	2	2	.
	St.dev	.	22.30	51.900	.	0.06	24.40	0.07	38.15a	0.130	.
06:010	Count 99.71	.	0.28	9.758	.	0.02	2.69	0.01	2.62	0.000	.
	Mean	.	.	.	.	.	.	.	.	.	123.83
	St.dev	.	.	.	.	.	.	.	.	.	miss
08:010	Count 99.58	62.72	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.
	St.dev	.	2	2	.	2	2	2	2	2	.
10:012	Count 99.58	61.51	2 22.00	2 54.450	.	2 0.06	2 23.70	2 0.08	2 38.50a	2 0.140	.
	Mean	.	0.42	0.212	.	0.01	0.99	0.01	5.66	0.014	.
	St.dev	.	.	.	.	.	.	.	.	.	miss
12:014	Count 99.71	59.53	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	2	2	.	2	2	2	2	2	.
14:016	Count 99.71	59.43	2 21.30	2 47.500	.	2 0.08	2 25.15	2 0.08	2 39.05a	2 0.145	.
	Mean	.	0.14	0.990	.	0.01	0.49	0.01	5.16	0.007	.
	St.dev	.	.	.	.	.	.	.	.	.	103.67
15:020	Count 99.71	59.68	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	92.67
16:018	Count 99.71	59.66	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	69.00
18:020	Count 99.71	59.25	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	69.00
20:022	Count 99.71	59.78	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	69.00
22:024	Count 99.71	60.39	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	69.00
24:026	Count 99.71	60.24	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	36.83
26:028	Count 99.71	59.84	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	36.83
28:030	Count 99.71	60.12	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	36.83
30:032	Count 99.71	60.55	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	19.00
32:034	Count 99.71	58.88	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	19.00
34:036	Count 99.71	57.77	.	.	.	.	.	.	.	.	miss
	Mean	.	.	.	.	.	.	.	.	.	miss
	St.dev	.	.	.	.	.	.	.	.	.	19.00

Tab.length cont'd J99, 77S Arendal area, 900510.

Slice.Depth cm up:lower	GSAMT MOON % <53µ	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt	Pb210 mBq/g
38:040 St.dev	.	.	.	.	.	.	.	.	.	.
40:042 Count	1	.	.	.	.	.	.	.	.	miss
40:042 Mean	58.34	.	.	.	.	.	.	.	.	miss
42:044 Count	1	.	.	.	.	.	.	.	.	miss
42:044 Mean	57.97	.	.	.	.	.	.	.	.	1
44:046 Count	1	.	.	.	.	.	.	.	.	20.50
44:046 Mean	58.15	.	.	.	.	.	.	.	.	miss
46:048 Count	1	.	.	.	.	.	.	.	.	miss
46:048 Mean	57.31	.	.	.	.	.	.	.	.	.
48:050 Count	1	.	.	.	.	.	.	.	.	miss
48:050 Mean	58.57	.	.	.	.	.	.	.	.	1
50:051 Count	1	.	.	.	.	.	.	.	.	1.50
50:051 Mean	58.34	.	.	.	.	.	.	.	.	.

miss(16)  
a ( 8)  
! Missing value.  
> Exceeds CLASS-1 limit.

Sample.area: J99 Undefined. All concentrations on Dry.weight basis.

Locality : 77S Arendal area, Latitude: 58°24.20N, Longitude: 09°01.80E

Sample date: 900510 , Sampling Lab: NIVA, Type: GC, Diameter: 050

Est. sedimentation rate 005 mm/year. Unfractionated sample unless "uu" then <63µm.

Slice.Depth cm up:lower	CB28 ppb	CB31 ppb	CB52 ppb	CB101 ppb	CB105 ppb	CB118 ppb	CB128 ppb	CB138 ppb	CB149 ppb	CB153 ppb	CB156 ppb	CB170 ppb	CB180 ppb	CB_E7 ppb	CB_EE ppb	DDEOP ppb	DDIOP ppb	DDTTP ppb	IDDEOP ppb	IDDEPP ppb	DD_EE ppb	
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
00:002 Mean	0.52	0.30	0.33	0.72	0.39	0.85	0.21	1.13	0.56	0.86	0.09	0.16	0.29	4.70a	6.39	0.18	0.73	0.05	0.26	0.28	0.98	2.47
00:002 St.dev	0.01	0.01	0.04	0.25	0.09	0.30	0.06	0.27	0.13	0.18	0.06	0.04	0.04	1.10	1.47	0.05	0.00	0.01	0.06	0.01	0.04	0.07

a(2)  
c(2)  
> Exceeds CLASS-1 limit.  
> Exceeds CLASS-3 limit.

Tab.width cont'd J99, 77S Arendal area, 900510.

Slice.Depth cm up:lower	HCHA ppb	HCHB ppb	HCHG ppb	HC_E3 ppb	HCB ppb	ALD ppb	NAP ppb	NAPC1 ppb	NAPC2 ppb	NAPC3 ppb	FILE ppb	PA ppb	ANT ppb	DBT ppb	PAC1 ppb	DBTC1 ppb	FLU ppb	PYR ppb	PAC2 ppb	DBTC2 ppb	DBTC3 ppb	BAA ppb	CHR ppb
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
00:002 Mean	0.20	0.23	0.22	0.65	0.65a	0.16	51.50	188.00	404.00	267.50	28.00	131.50	20.00	13.50	201.50	25.00	169.00	140.50	167.00	31.00	45.50	98.00	167.50
00:002 St.dev	0.00	0.16	0.02	0.13	0.05	0.01	0.71	14.14	29.70	16.26	1.41	6.36	1.41	0.71	0.71	1.41	9.90	7.78	8.49	1.41	0.71	7.07	9.19

Tab.width cont'd J99, 77S Arendal area, 900510.

Slice.Depth cm up:lower	BBKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DEAFA ppb	BGHIP ppb	DI ppb	PA ppb	PK ppb	PARHE ppb	SPAH ppb
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2
00:002 Mean	324.50	131.00	106.00c	61.00	121.00	27.50	105.50	911.00	2114.50	677.00	3025.50c	2976.5
00:002 St.dev	7.78	5.66	9.90	5.66	4.24	0.71	60.81	84.15	28.28	144.96	75.7	

Sample area: **J99 Undefined**. All concentrations on **Dry weight basis**.  
 Locality : **15S Lista area**, Latitude: 58°01.00N, Longitude: 06°34.30E  
 Sample date: **900507**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "x" then <63µm.

Slice Depth cm up: lower	GSAMT %<63µ	MOCON %	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt	Pb210 mBq/g
00:001	Count 88.93	1	2	2	2	2	2	2	2	2	.
	Mean	.	17.20	55.250	61.750	0.10	21.65	0.04	58.75a	0.110	.
	St.dev	.	1.70	2.616	0.354	0.02	2.05	0.01	5.30	0.000	.
00:002	Count	1	.	.	.	.	.	.	.	.	1
	Mean	73.10	.	.	.	.	.	.	.	.	158.17
01:002	Count	1	2	2	.	2	2	2	2	2	.
	Mean	.	17.65	65.700	.	0.04	22.05	0.04	46.00a	0.115	.
	St.dev	.	0.64	1.980	.	0.00	0.07	0.01	3.96	0.007	.
02:004	Count	1	2	2	2	2	2	2	2	2	1
	Mean	59.64	16.20	51.650	.	0.07	20.05	0.03	51.75a	0.115	130.67
	St.dev	.	2.69	2.616	.	0.01	3.61	0.00	1.77	0.021	.
04:006	Count	1	2	2	2	2	2	2	2	2	1
	Mean	86.02	15.30	60.400	.	0.07	20.00	0.04	45.25a	0.110	64.33
	St.dev	.	1.56	4.808	.	0.03	1.41	0.01	3.32	0.014	.
06:008	Count	1	.	.	.	.	.	.	.	.	miss
	Mean	51.54	.	.	.	.	.	.	.	.	.
06:010	Count	1	2	2	.	2	2	2	2	2	.
	Mean	86.71	13.75	61.000	.	0.06	22.00	0.03	33.85a	0.095	.
	St.dev	.	1.34	0.424	.	0.00	1.13	0.01	2.76	0.007	.
08:010	Count	1	.	.	.	.	.	.	.	.	1
	Mean	51.68	.	.	.	.	.	.	.	.	0.33
10:012	Count	1	.	.	.	.	.	.	.	.	1
	Mean	53.90	.	.	.	.	.	.	.	.	2.00
10:015	Count	1	2	2	.	2	2	2	2	2	.
	Mean	88.84	12.90	55.000	.	0.07	18.80	0.02	27.85	0.090	.
	St.dev	.	0.99	7.354	.	0.01	1.27	0.00	3.18	0.000	.
12:014	Count	1	.	.	.	.	.	.	.	.	miss
	Mean	48.23	.	.	.	.	.	.	.	.	1
14:016	Count	1	.	.	.	.	.	.	.	.	-2.83
	Mean	55.26	.	.	.	.	.	.	.	.	.
15:020	Count	1	2	2	.	2	2	2	2	2	.
	Mean	89.80	11.45	67.700	.	0.08	19.50	0.02	23.45	0.090	.
	St.dev	.	2.76	7.212	.	0.01	2.40	0.00	3.18	0.000	.
16:018	Count	1	.	.	.	.	.	.	.	.	miss
	Mean	48.97	.	.	.	.	.	.	.	.	1
18:020	Count	1	.	.	.	.	.	.	.	.	-0.67
	Mean	51.69	.	.	.	.	.	.	.	.	.
20:022	Count	1	.	.	.	.	.	.	.	.	miss
	Mean	50.42	.	.	.	.	.	.	.	.	1
22:024	Count	1	.	.	.	.	.	.	.	.	14.67
	Mean	51.08	.	.	.	.	.	.	.	.	.
24:026	Count	1	.	.	.	.	.	.	.	.	miss
	Mean	50.08	.	.	.	.	.	.	.	.	1
26:028	Count	1	.	.	.	.	.	.	.	.	-0.33
	Mean	43.14	.	.	.	.	.	.	.	.	.
28:030	Count	1	.	.	.	.	.	.	.	.	miss
	Mean	41.52	.	.	.	.	.	.	.	.	1
30:032	Count	1	.	.	.	.	.	.	.	.	-1.33
	Mean	40.56	.	.	.	.	.	.	.	.	.

miss(6)  
 a (5)  
 ! Missing value.  
 > Exceeds CLASS-1 limit.

Sample area: J99 Undefined. All concentrations on Dry weight basis.  
 Locality : 15S Lista area, Latitude: 58°01.00N, Longitude: 06°34.30E  
 Sample date: 900507, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless <sup>mm</sup> then <63µm.

Slice.Depth cm up:lower	CB28 ppb	CB31 ppb	CB52 ppb	CB101 ppb	CB105 ppb	CB118 ppb	CB128 ppb	CB138 ppb	CB149 ppb	CB153 ppb	CB156 ppb	CB170 ppb	CB180 ppb	CB_Σ7 ppb	CB_ΣΣ ppb	DDEOP ppb	DDEPP ppb	DDIOP ppb	DDIPP ppb	TDDEOP ppb	TDDEPP ppb	DD_ΣΣ ppb
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
Mean	0.26	0.15	0.61	2.45	1.26	2.73	1.16	2.90	1.57	2.05	<0.22	0.35	0.69	11.68a	<<16.37	0.58	0.81	<0.05	0.65	0.28	0.78	<3.15
St.dev	0.01	0.00	0.03	0.51	0.21	0.57	0.54	0.57	0.23	0.23	0.23	0.03	0.04	1.89	2.05	.	.	.	.	.	.	.

a(3) > Exceeds CLASS-1 limit.  
 c(1) > Exceeds CLASS-3 limit.

Tab.width cont'd J99, 15S Lista area, 900507.

Slice.Depth cm up:lower	HCHA ppb	HCHB ppb	HCHG ppb	HC_Σ3 ppb	HCB ppb	A1D ppb	NAP ppb	NAPC1 ppb	NAPC2 ppb	NAPC3 ppb	FILE ppb	PA ppb	ANT ppb	DBT ppb	PAC1 ppb	DBIC1 ppb	FLU ppb	PYR ppb	PAC2 ppb	DBIC2 ppb	DBIC3 ppb	BAA ppb	CHR ppb	
00:002 Count	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean	0.09	0.08	0.10	0.27	0.61a	0.10	16.00	63.50	172.50	172.50	25.00	84.00	12.00	7.50	112.50	13.00	121.50	100.50	80.50	13.50	14.00	68.50	116.00	
St.dev	.	.	.	.	.	.	0.00	41.72	50.20	27.58	7.07	18.38	2.83	2.12	37.48	4.24	2.12	2.12	27.58	3.54	2.83	7.78	11.31	

Tab.width cont'd J99, 15S Lista area, 900507.

Slice.Depth cm up:lower	BBKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DEAHA ppb	BGHIP ppb	DI_ΣΣ ppb	PA_ΣΣ ppb	PK_ΣΣ ppb	PAH_ΣΣ ppb	SPAH ppb
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2
Mean	276.50	105.50	76.50c	31.00	146.50	33.50	118.00	424.50	1556.00	601.50	1980.50a	1980.5
St.dev	4.95	4.95	0.71	4.24	12.02	3.54	8.49	64.35	96.17	3.54	160.51	160.5

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Sample.area: **J99 Undefined**. All concentrations on **Dry.weight basis**.  
 Locality : **22S Bømlø area**, Latitude: 59°25.90N, Longitude: 04°50.20E  
 Sample date: **900504**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless **xxxx** then <63µm.

Slice.Depth cm up:lower	GSAMT %<63µ	MOCON %	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt	Pb210 mBq/g
00:001	Count 48.85	1	2 8.55	2 52.900	2 32.750	2 0.05	2 11.50	2 0.02	2 39.25a	2 0.060	.
	Mean	.	2.19	10.465	9.546	0.01	2.69	0.01	11.67	0.014	.
	St.dev	1	1	1	1	1	1	1	1	1	1
00:002	Count 64.93	1	13.00	56.900	46.000	0.06	17.50	0.02	65.00a	0.090	184.00
	Mean	1	8.35	52.900	.	<0.03	12.55	0.03	32.55a	0.065	.
	St.dev	1	1.48	5.940	.	0.01	0.92	0.00	8.41	0.021	.
02:004	Count 53.11	1	2 10.15	2 59.700	2 4.384	2 0.09	2 14.10	2 0.02	2 46.10a	2 0.760c	1 63.33
	Mean	1	1.20	4.384	.	0.08	1.13	0.00	1.41	0.962	.
	St.dev	1	2	2	2	2	2	2	2	2	miss
04:006	Count 53.63	1	2 9.55	2 58.500	2 3.111	2 0.03	2 13.65	2 0.02	2 31.75a	2 0.130	miss
	Mean	1	0.07	3.111	.	0.00	2.33	0.00	6.15	0.085	.
	St.dev	1	.	.	.	.	.	.	.	.	1
06:008	Count 43.42	1	.	.	.	.	.	.	.	.	4.50
	Mean	1	7.45	50.500	2	0.06	10.60	0.02	21.30	0.055	.
	St.dev	1	0.92	2.970	.	0.00	0.14	0.01	1.84	0.007	.
08:010	Count 28.29	1	.	.	.	.	.	.	.	.	1
	Mean	1	35.28	.	.	.	.	.	.	.	-1.33
	St.dev	1	.	.	.	.	.	.	.	.	0.67
10:012	Count 37.87	1	2 5.95	2 45.600	2 1.556	2 0.06	2 9.45	2 <0.01	2 14.95	2 0.060	.
	Mean	1	1.48	1.556	.	0.01	0.07	0.00	1.48	0.014	.
	St.dev	1	.	.	.	.	.	.	.	.	1
12:014	Count 32.24	1	.	.	.	.	.	.	.	.	-1.33
	Mean	1	37.24	.	.	.	.	.	.	.	2.17
	St.dev	1	5.60	56.200	2	0.08	10.80	0.01	17.85	0.115	.
14:016	Count 33.97	1	2 0.99	2 11.597	.	2 0.01	2 2.26	2 0.00	2 2.47	2 0.078	.
	Mean	1	.	.	.	.	.	.	.	.	miss
	St.dev	1	39.75	.	.	.	.	.	.	.	miss
16:018	Count 33.15	1	.	.	.	.	.	.	.	.	miss
	Mean	1	32.68	.	.	.	.	.	.	.	miss
	St.dev	1	27.48	.	.	.	.	.	.	.	miss

miss(5)  
 a (5)  
 c (1)  
 ! Missing value.  
 > Exceeds CLASS-1 limit.  
 > Exceeds CLASS-3 limit.

Sample.area: **J99 Undefined**. All concentrations on **Dry.weight basis**.  
 Locality : **22S Bømlø area**, Latitude: 59°25.90N, Longitude: 04°50.20E  
 Sample date: **900504**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless **xxxx** then <63µm.

Slice.Depth cm up:lower	CB28	CB31	CB52	CB101	CB105	CB118	CB128	CB138	CB149	CB153	CB156	CB170	CB180	CB_Σ7	CB_ΣΣ	DDEPP	DDTTP	DDEOP	DDTTP	DD_ΣΣ	
00:002	Count 0.05	2 0.03	2 0.08	2 0.14	2 0.08	2 0.15	2 0.05	2 0.27	2 0.14	2 0.22	2 <0.04	2 0.06	2 0.13	2 1.05	2 <<1.42	2 0.08	2 0.27	2 0.05	2 0.05	2 0.11	2 0.29
	Mean	0.01	0.01	0.01	0.01	0.03	0.01	0.05	0.03	0.05	0.02	0.00	0.01	0.16	0.25	0.02	0.05	0.01	0.08	0.01	0.07
	St.dev	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.	Exceeds CLASS-1 limit.

a(2)  
 > Exceeds CLASS-1 limit.

Tab.width cont'd J99, 22S Bømlø area, 900504.

Slice.Depth cm up:lower	HCHA ppb	HCHB ppb	HCHG ppb	HC_E3 ppb	HCB ppb	ALD ppb	NAP ppb	NAP1 ppb	NAP2 ppb	NAP3 ppb	FILE ppb	PA ppb	ANT ppb	DBT ppb	PAC1 ppb	DBTC1 ppb	FLU ppb	PYR ppb	PAC2 ppb	DBTC2 ppb	DBTC3 ppb	BAA ppb	CHR ppb	
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean	0.03	0.05	0.03	0.11	0.16	0.05	4.50	20.00	58.50	50.50	5.50	23.00	2.50	1.50	34.50	3.50	28.00	23.50	25.00	4.00	3.50	20.50	35.50	
St.dev	0.01	0.01	0.00	0.01	0.05	0.01	4.95	5.66	17.68	24.75	2.12	2.83	0.71	0.71	0.71	0.71	5.66	4.95	4.24	1.41	2.12	4.95	10.61	

Tab.width cont'd J99, 22S Bømlø area, 900504.

Slice.Depth cm up:lower	BBKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBAHA ppb	BGHP ppb	DI ppb	ΣΣ ppb	PA ppb	ΣΣ ppb	PK ppb	ΣΣ ppb	PAHEE ppb	SPAH ppb
00:002 Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean	98.50	37.00	20.50a	8.00	67.50	14.00	51.50	133.50	507.50	221.00	641.00a	641.0	22.6		
St.dev	10.61	2.83	2.12	0.00	0.71	0.00	0.71	31.82	54.45	18.38	22.63	22.6			

Sample.area: J99 Undefined. All concentrations on Dry.weight basis.

Locality : 24S Sotra, Latitude: 60°15.10N, Longitude: 04°33.30E

Sample date: 900503, Sampling Lab: NIVA, Type: GC, Diameter: 050

Est. sedimentation rate 001 mm/year. Unfractionated sample unless  $\mu\mu\mu$  then <63 $\mu\mu$ .

Slice.Depth cm up:lower	GSAMT %<63 $\mu$	CORG ppt	Al ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:002 Count	1	3	3	3	3	3	3	3	3
Mean	40.57	8.87	33.867	60.500	0.07	13.60	0.02	38.30a	0.057
St.dev	.	0.65	1.750	0.500	0.01	1.14	0.01	2.07	0.006

a(1) > Exceeds CLASS-1 limit.

Sample.area: J63 Sørfjorden. All concentrations on Dry.weight basis.

Locality : 52S Tyssedal, Latitude: 60°06.90N, Longitude: 06°32.90E

Sample date: 901031, Sampling Lab: NIVA, Type: GC, Diameter: 050

Est. sedimentation rate 002 mm/year. Unfractionated sample unless  $\mu\mu\mu$  then <63 $\mu\mu$ .

Slice.Depth cm up:lower	GSAMT %<63 $\mu$	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:002 Count	1	3	3	3	3	3	3	3
Mean	83.59	22.63	45.133	8.16c	238.33c	8.82e	1910.00e	2.730c
St.dev	.	7.13	3.711	3.56	112.38	4.09	1074.62	1.308
00:002* Count	3	3	3	3	3	3	3	3
Mean	100.00	19.97	53.733	8.11c	249.33c	8.30e	2050.00e	2.807c
St.dev	0.00	5.42	1.858	3.46	126.51	4.07	1260.12	1.513

c(6) > Exceeds CLASS-3 limit.

e(4) > Exceeds CLASS-5 limit.

Sample area: **J63 Sørfljorden**. All concentrations on **Dry weight basis**.  
 Locality : **56S Kvalnes**, Latitude: 60°13.70N, Longitude: 06°35.60E  
 Sample date: **901101**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless **\*\*\*** then <63µm.

Slice.Depth cm up: lower	GSAMT %<63µ	MOON %	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppb	Pb210 mBq/g
00:001	Count 87.39	1	2	2	2	2	2	2	2	.
	Mean	.	15.00	71.500	0.54a	66.80a	2.36c	280.50c	0.670a	.
	St.dev	.	0.85	4.525	0.06	1.70	0.24	28.99	0.057	.
00:002	Count	1	1	1	1	1	1	1	1	1
	Mean	82.62	59.96	65.300	0.46a	64.20a	2.14c	288.00c	0.510a	54.83
	St.dev	85.03	.	12.70	0.38a	66.65a	2.13c	289.50c	0.515a	.
01:002	Count	1	2	2	2	2	2	2	2	1
	Mean	.	1.41	16.617	0.04	0.78	0.06	6.36	0.078	.
	St.dev	1	2	2	2	2	2	2	2	1
02:004	Count	1	2	2	2	2	2	2	2	1
	Mean	83.75	55.06	51.500	0.45a	66.85a	2.21c	159.15c	0.470a	54.00
	St.dev	1	1	5.374	0.01	0.78	0.09	189.29	0.028	.
04:006	Count	1	2	2	2	2	2	2	2	1
	Mean	81.42	54.39	56.800	0.42a	64.55a	2.29c	165.50c	0.525a	55.33
	St.dev	.	1	0.35	0.04	3.75	0.06	191.63	0.049	.
06:008	Count	.	.	.	.	.	.	.	.	1
	Mean	52.99	.	.	.	.	.	.	.	47.67
06:010	Count	1	2	2	2	2	2	2	2	2
	Mean	80.53	.	12.80	0.48a	65.55a	2.16c	242.50c	0.435a	.
	St.dev	.	1	0.57	0.11	0.35	0.40	12.02	0.007	.
08:010	Count	.	1	.	.	.	.	.	.	1
	Mean	51.14	.	.	.	.	.	.	.	54.33
10:012	Count	.	1	.	.	.	.	.	.	1
	Mean	48.65	.	.	.	.	.	.	.	25.00
10:015	Count	1	2	2	2	2	2	2	2	2
	Mean	82.04	.	11.80	0.29a	56.45a	0.97c	127.00c	0.275a	.
	St.dev	.	1	0.28	0.05	2.47	0.21	32.53	0.035	.
12:014	Count	.	1	.	.	.	.	.	.	1
	Mean	46.32	.	.	.	.	.	.	.	13.33
14:016	Count	.	1	.	.	.	.	.	.	1
	Mean	43.29	.	.	.	.	.	.	.	-0.67
15:020	Count	1	2	2	2	2	2	2	2	1
	Mean	73.60	.	10.10	0.16	49.65a	0.40a	67.25a	0.180a	.
	St.dev	.	1	0.28	0.09	7.71	0.45	7.57	0.057	.
16:018	Count	.	1	.	.	.	.	.	.	1
	Mean	43.20	.	.	.	.	.	.	.	1.67
18:020	Count	.	1	.	.	.	.	.	.	1
	Mean	43.91	.	.	.	.	.	.	.	3.33
20:022	Count	.	1	.	.	.	.	.	.	miss
	Mean	40.08	.	.	.	.	.	.	.	1
22:023	Count	.	1	.	.	.	.	.	.	1
	Mean	36.50	.	.	.	.	.	.	.	-5.00

miss( 1) ! Missing value.  
 a (25) > Exceeds CLASS-1 limit.  
 c (14) > Exceeds CLASS-3 limit.

Sample area: **J63 Sørfljorden**. All concentrations on **Dry weight basis**.  
 Locality : **56S Kvalnes**, Latitude: 60°13.70N, Longitude: 06°35.60E  
 Sample date: **901101**, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless **\*\*\*** then <63µm.

Slice.Depth cm up: lower	CB28	CB31	CB52	CB101	CB105	CB118	CB128	CB138	CB149	CB153	CB156	CB170	CB180	CB 17	CB 18	DDEPP	DDTTP	DDEOP	DDTTP	DD 18	DD 22
00:002	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	0.02	0.02	0.21	0.68	0.32	0.16	0.75	0.45	0.55	0.27	0.09	0.18	3.06a	4.16	0.25	2.87	0.45	8.32	1.00	3.13
	St.dev	0.00	0.00	0.11	0.36	0.17	0.40	0.26	0.15	0.16	0.06	0.03	0.06	1.36	1.84	0.06	0.05	0.04	1.66	0.04	0.13

a(1) > Exceeds CLASS-1 limit.  
 c(2) > Exceeds CLASS-3 limit.

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Tab.width cont'd J63, 56S Kvalnes, 901101.

Slice.Depth cm	HCHA	HCHB	HCHG	HC <sub>Σ3</sub>	HCB	A1D	NAP	NAPC1	NAPC2	NAPC3	FLE	PA	ANT	DBT	PAC1	DETC1	FLU	PYR	PAC2	DETC2	DETC3	BAA	CHR
up:lower	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:002	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Count	0.10	0.09	0.12	0.31	0.14	0.02	15.50	16.50	23.50	14.50	24.00	164.00	34.50	13.50	79.50	9.50	237.50	196.00	37.50	8.00	5.50	172.00	243.50
Mean	0.01	0.01	0.01	0.04	0.03	0.01	0.71	2.12	9.19	3.54	2.83	11.31	3.54	0.71	6.36	2.12	9.19	8.49	6.36	2.83	0.71	12.73	19.09
St.dev																							

Tab.width cont'd J63, 56S Kvalnes, 901101.

Slice.Depth cm	BBKF	BEP	BAP	PER	ICDP	DEAFA	BGHIP	DI	ΣΣ	PA	ΣΣ	PK	ΣΣ	PAHEE	SPAHE
up:lower	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:002	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Count	308.50	140.00	133.50c	40.00	185.50	41.00	141.00	70.00	2214.50	840.50	2284.50c	2284.5	27.6		
Mean	60.10	32.53	31.82	11.31	61.52	12.73	42.43	15.56	43.13	30.41	27.58	27.6			
St.dev															

Sample.area: J63 Sørfjorden. All concentrations on Dry.weight basis.  
 Locality : 57S Krossanes, Latitude: 60°23.10N, Longitude: 06°40.70E  
 Sample date: 901101, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "uu" then <63µm.

Slice.Depth cm	GSAMT	CORG	Al	Cd	Cu	Hg	Pb	Zn
up:lower	%<63µ	ppt	ppt	ppm	ppm	ppm	ppm	ppt
00:002	1	3	3	3	3	3	3	3
Count	80.72	12.57	51.833	0.31a	41.67a	1.32c	186.67c	0.283a
Mean	.	1.33	2.001	0.10	3.66	0.35	65.36	0.067
St.dev								
00:002*	3	3	3	3	3	3	3	3
Count	100.00	10.07	57.000	0.23	39.93a	0.98c	173.67c	0.250a
Mean	0.00	0.49	3.470	0.06	3.16	0.28	44.06	0.036
St.dev								

a(5) > Exceeds CLASS-1 limit.  
 c(4) > Exceeds CLASS-3 limit.

Sample.area: J62 Hardangerfjorden. All concentrations on Dry.weight basis.  
 Locality : 63S Ranaskjær, Latitude: 60°23.60N, Longitude: 06°27.10E  
 Sample date: 901101, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "uu" then <63µm.

Slice.Depth cm	GSAMT	CORG	Al	Cd	Cu	Hg	Pb	Zn
up:lower	%<63µ	ppt	ppt	ppm	ppm	ppm	ppm	ppt
00:002	1	3	3	3	3	3	3	3
Count	96.56	15.30	56.633	0.15	44.03a	0.68c	149.67c	0.293a
Mean	.	0.17	1.779	0.03	1.36	0.04	20.21	0.015
St.dev								

a(2) > Exceeds CLASS-1 limit.  
 c(2) > Exceeds CLASS-3 limit.

Sample.area: **J62 Hardangerfjorden.** All concentrations on **Dry-weight basis.**  
 Locality : **67S Strandebarbm,** Latitude: 60°13.50N, Longitude: 06°05.10E  
 Sample date: **901102** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "uu" then <63µm.

GSAMT	MOON	CORG	Al	Cd	Cu	Hg	Pb	Zn	Pb210
%<53µ	%	ppt	ppt	ppm	ppm	ppm	ppm	ppm	mBq/g
00:001	Count	2	2	2	2	2	2	2	2
	Mean	14.20	56.900	0.16	37.10a	0.28a	79.40a	0.250a	0.250a
	St.dev	0.57	3.536	0.01	4.38	0.01	5.09	0.028	0.028
00:002	Count	1	1	1	1	1	1	1	1
	Mean	64.28	54.500	0.11	32.40	0.24a	72.20a	0.200a	115.50
01:002	Count	2	2	2	2	2	2	2	2
	Mean	13.70	56.250	0.11	32.90	0.29a	85.20a	0.220a	0.220a
	St.dev	0.71	3.465	0.01	0.28	0.01	5.23	0.000	0.000
02:004	Count	2	2	2	2	2	2	2	2
	Mean	15.20	60.250	0.14	34.75	0.27a	84.05a	0.220a	119.83
	St.dev	0.71	6.010	0.02	0.49	0.08	13.08	0.014	0.014
04:006	Count	2	2	2	2	2	2	2	2
	Mean	14.50	58.150	0.17	35.40a	0.16a	61.05a	0.180a	85.00
	St.dev	0.00	1.061	0.01	0.71	0.01	4.17	0.014	0.014
06:008	Count	1	1	1	1	1	1	1	1
	Mean	55.47	55.47	0.00	0.00	0.00	0.00	0.00	97.00
06:010	Count	2	2	2	2	2	2	2	2
	Mean	13.95	58.450	0.11	32.45	0.10	54.35a	0.165a	0.165a
	St.dev	0.21	4.313	0.01	0.07	0.01	7.99	0.007	0.007
08:010	Count	1	1	1	1	1	1	1	1
	Mean	56.53	56.53	0.00	0.00	0.00	0.00	0.00	104.83
10:012	Count	1	1	1	1	1	1	1	1
	Mean	55.72	55.72	0.00	0.00	0.00	0.00	0.00	18.50
10:015	Count	2	2	2	2	2	2	2	2
	Mean	13.25	60.900	0.14	32.15	0.04	41.45a	0.150	0.150
	St.dev	0.07	2.404	0.02	1.20	0.03	0.64	0.000	0.000
12:014	Count	1	1	1	1	1	1	1	1
	Mean	51.91	51.91	0.00	0.00	0.00	0.00	0.00	1.67
14:016	Count	1	1	1	1	1	1	1	1
	Mean	50.57	50.57	0.00	0.00	0.00	0.00	0.00	37.50
15:020	Count	2	2	2	2	2	2	2	2
	Mean	11.80	63.400	0.13	30.35	0.02	34.60a	0.140	0.140
	St.dev	1.41	0.566	0.02	1.48	0.00	4.67	0.000	0.000
16:018	Count	1	1	1	1	1	1	1	1
	Mean	49.29	49.29	0.00	0.00	0.00	0.00	0.00	24.00
18:020	Count	1	1	1	1	1	1	1	1
	Mean	48.85	48.85	0.00	0.00	0.00	0.00	0.00	14.67
20:022	Count	1	1	1	1	1	1	1	1
	Mean	48.34	48.34	0.00	0.00	0.00	0.00	0.00	0.33

a(21) > Exceeds CLASS-1 limit.

Sample.area: **J62 Hardangerfjorden.** All concentrations on **Dry-weight basis.**  
 Locality : **67S Strandebarbm,** Latitude: 60°13.50N, Longitude: 06°05.10E  
 Sample date: **901102** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate 001 mm/year. Unfractionated sample unless "uu" then <63µm.

CB28	CB31	CB52	CB101	CB105	CB118	CB128	CB138	CB149	CB153	CB156	CB170	CB180	CB Σ7	CB ΣΣ	DDEPP	DDIOP	DDTTP	DDEOP	DDOPP	DD ΣΣ
ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:002	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	0.04	0.03	0.08	0.18	0.12	0.22	0.46	0.35	<0.04	0.12	0.27	1.59	<<2.21	0.10	0.95	0.22	3.95	0.32	0.98
	St.dev	0.01	0.00	0.04	0.06	0.04	0.06	0.12	0.11	0.01	0.03	0.08	0.47	0.62	0.03	0.18	0.01	1.36	0.05	0.05

a(2) > Exceeds CLASS-1 limit.

Tab.width cont'd J62, 67S Strandebarrow, 901102.

Slice.Depth cm up:lower	HCHA ppb	HCHB ppb	HCHG ppb	HC_Σ3 ppb	HCB ppb	ALD ppb	NAP ppb	NAPC1 ppb	NAPC2 ppb	NAPC3 ppb	FILE ppb	PA ppb	ANT ppb	DBT ppb	PAC1 ppb	DBTC1 ppb	FLU ppb	PYR ppb	PAC2 ppb	DBTC2 ppb	DBTC3 ppb	BAA ppb	CHR ppb	
00:002	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean	0.04	0.03	0.03	0.09	0.12	<<.04	7.00	17.00	32.00	22.50	6.00	44.50	7.00	3.50	39.00	3.50	68.50	59.50	25.00	3.50	3.00	40.50	65.00	
St.dev	0.01	0.01	0.01	0.02	0.04	0.01	1.41	2.83	8.49	3.54	2.83	13.44	2.83	0.71	11.31	0.71	14.85	10.61	5.66	0.71	1.41	9.19	15.56	

Tab.width cont'd J62, 67S Strandebarrow, 901102.

Slice.Depth cm up:lower	BBKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBAHA ppb	BGHP ppb	DI_ΣΣ ppb	PA_ΣΣ ppb	PK_ΣΣ ppb	PAHΣΣ ppb	SPAH ppb
00:002	2	2	2	2	2	2	2	2	2	2	2	2
Mean	166.50	67.50	41.50a	17.50	104.00	21.50	82.50	78.50	869.50	374.00	948.00a	948.0
St.dev	17.68	4.95	6.36	3.54	5.66	3.54	4.95	16.26	136.47	42.43	152.74	152.7

Sample.area: J62 Hardangerfjorden. All concentrations on Dry.weight basis.

Locality : 69S Kvinnheradsfjorden, Latitude: 60°01.30N, Longitude: 05°56.10E

Sample date: 901030 , Sampling Lab: NIVA, Type: GC, Diameter: 050

Est. sedimentation rate 001 mm/year. Unfractionated sample unless "xxx" then <63µm.

Slice.Depth cm up:lower	GSMT %<63µ	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:002	1	3	3	3	3	3	3	3
Mean	98.69	13.60	60.100	0.11	30.77	0.13	65.53a	0.167a
St.dev	.	0.79	2.946	0.02	1.42	0.02	4.23	0.012

a(2) > Exceeds CLASS-1 limit.

Sample.area: J99 Undefined. All concentrations on DRY weight basis.  
 Locality : 27S Statlandet (east of), Latitude: 62°09.30N, Longitude: 05°21.30E  
 Sample date: 920902 , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless <sup>iii</sup> then <63µm.

MOON	CORG	Li	Cd	Cu	Hg	Pb	Zn	Pb210	CB28	CB52	CB101	CB105	CB118	CB138	CB153	CB156	CB180	CB209	CB Σ7	CB ΣΣ	DDEPP
%	ppt	ppm	ppm	ppm	ppm	ppm	ppt	mBq/g	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	Count	3	3	3	3	3	3	1													
	Mean	33.23	0.12	29.83	0.12	53.00a	0.107	327.83													
	St.dev	0.55	0.500	0.76	0.01	2.18	0.002														
00:002	Count																				
	Mean																				
	St.dev																				
01:002	Count	1	2	2	2	2	2	1													
	Mean	34.55	0.12	30.00	0.12	54.75a	0.108	404.83													
	St.dev	0.35	1.768	0.01	0.01	1.06	0.003														
02:003	Count	1						1													
	Mean	75.54						334.50													
02:004	Count		2	2	2	2	2														
	Mean		34.60	30.750	0.13	55.75a	0.112														
	St.dev		0.71	1.061	0.00	1.06	0.001														
04:006	Count		2	2	2	2	2														
	Mean		35.10	31.500	0.14	58.25a	0.114														
	St.dev		0.42	0.707	0.00	1.06	0.001														
05:006	Count	1						1													
	Mean	74.55						221.00													
06:010	Count		2	2	2	2	2														
	Mean		35.00	31.250	0.14	58.50a	0.115														
	St.dev		0.28	0.354	0.02	1.41	0.001														
08:009	Count	1						1													
	Mean	71.67						236.00													
10:015	Count		2	2	2	2	2														
	Mean		33.95	30.750	0.12	57.00a	0.114														
	St.dev		0.64	0.354	0.00	1.41	0.001														
12:013	Count	1						1													
	Mean	70.21						129.00													
15:020	Count		2	2	2	2	2														
	Mean		33.35	31.750	0.14	51.25a	0.104														
	St.dev		0.78	0.354	0.00	1.06	0.000														
19:020	Count	1						1													
	Mean	67.88						39.83													
25:026	Count	1						1													
	Mean	66.25						12.33													
27:032	Count																				
	Mean																				
	St.dev																				
31:032	Count	1						1													
	Mean	61.86						0.00													
33:038	Count																				
	Mean																				
	St.dev																				
34:039	Count		1	1	1	1	1														
	Mean		29.70	31.500	0.20	27.50	0.074														
	St.dev		1	1	1	1	1														
45:050	Count																				
	Mean		27.90	31.500	0.21	22.00	0.075														

s (35)  
 ! Suspect value(s)  
 ! Missing value.  
 k Value= 1000 \* given units.  
 a (13) > Exceeds CLASS-1 limit.  
 c (2) > Exceeds CLASS-3 limit.





Tab.width cont'd J99, 27S Stattlandet (east of), 920902.

	CHR	BF	BJKF	BEP	BAP	PER	ICDP	DBA3A	BGHIP	COR	DBP	DI	PA	PK	PAR
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
00:002	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	72.00	132.50	158.00	128.00c	39.00	271.00	36.00	267.00	<<1.00	<<1.00	<<37.00	s<<1k79	<<933.50	s<<1k83a
	St.dev	1.41	12.02	18.38	14.14	2.83	18.38	0.00	38.18	0.00	0.00	43.84	119.50	36.06	74.95
01:002	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:003	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
04:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
05:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
06:010	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
08:009	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10:015	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12:013	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25:026	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
27:032	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	27.00	233.00	85.00	105.00	40.00	208.00	22.00	193.00	<1.00	<1.00	s<1.00	s<1094.00	<629.00	s<1k09a
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
31:032	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
33:038	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	11.00	s78.00	miss	25.00	16.00a	17.00	8.00	64.00	<1.00	<1.00	s<8.00	s<327.00	s<180.00	s<334.00a
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
34:039	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45:050	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **89S Thamshavn**, Latitude: 63°19.08N, Longitude: 09°52.05E  
 Sample date: **871019** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Slice.Depth cm up: lower	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	2	2	2	2	2	2	2
Mean	12.17	65.150	0.36a	307.00c	0.14	113.70a	0.282a
St.dev	3.30	0.636	0.22	148.49	0.01	36.63	0.119
01:002 Count	2	2	2	2	2	2	2
Mean	10.90	64.200	2.13c	222.00c	0.11	89.30a	0.229a
St.dev	0.85	2.404	1.87	42.43	0.05	18.81	0.033

a(5) > Exceeds CLASS-1 limit.  
 c(3) > Exceeds CLASS-3 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **89S Thamshavn**, Latitude: 63°19.08N, Longitude: 09°52.05E  
 Sample date: **920830** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Slice.Depth cm up: lower	CORG ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	3	3	3	3	3	3	3
Mean	13.00	34.500	0.74a	280.33c	0.09	52.33a	0.307a
St.dev	2.88	1.323	0.29	128.14	0.06	32.68	0.081

a(3) > Exceeds CLASS-1 limit.  
 c(1) > Exceeds CLASS-3 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **84S Trossavika**, Latitude: 63°21.70N, Longitude: 09°57.40E  
 Sample date: **871019** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Slice.Depth cm up: lower	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	4	4	4	4	4	4	4
Mean	12.10	64.400	0.69a	357.50c	0.35a	196.50c	0.547a
St.dev	0.54	4.232	0.26	153.89	0.13	68.49	0.221
01:002 Count	4	4	1	4	4	4	4
Mean	10.34	59.500	6.23c	742.50c	0.60c	368.25c	1.183c
St.dev	1.47	2.083	.	220.39	0.20	107.41	0.915

a(3) > Exceeds CLASS-1 limit.  
 c(7) > Exceeds CLASS-3 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **84S Trossavika**, Latitude: 63°21.70N, Longitude: 09°57.40E  
 Sample date: **920830** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "" then <63µm.

Slice.Depth cm up: lower	CORG ppt	Li ppm	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	3	3	3	3	3	3	3
Mean	11.10	43.833	1.71c	408.33c	0.21a	108.33a	0.453a
St.dev	0.17	3.329	2.07	163.03	0.10	27.54	0.142

a(3) > Exceeds CLASS-1 limit.  
 c(2) > Exceeds CLASS-3 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **82S Flakk**, Latitude: 63°27.05N, Longitude: 10°11.08E  
 Sample date: **871019** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "\*" then <63µm.

Slice.Depth cm up:lower	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	4	4	4	4	4	4	4
Mean	16.78	64.025	<<0.08	57.70a	0.13	65.45a	0.145
St.dev	10.47	5.174	0.02	8.76	0.04	27.61	0.010
01:002 Count	4	4	4	4	4	4	4
Mean	15.44	67.575	<<0.10	59.78a	0.14	77.95a	0.154a
St.dev	13.31	7.195	0.03	4.93	0.06	25.93	0.012

a(5) > Exceeds CLASS-1 limit.

Sample.area: **J65 Orkdalsfjorden**. All concentrations on **Dry-weight basis**.  
 Locality : **90S Outer Orkdalsfjord**, Latitude: 63°27.40N, Longitude: 10°03.00E  
 Sample date: **871019** , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "\*" then <63µm.

Slice.Depth cm up:lower	CORG ppt	Al ppt	Cd ppm	Cu ppm	Hg ppm	Pb ppm	Zn ppt
00:001 Count	2	2	2	2	2	2	2
Mean	10.50	65.550	0.06	50.45a	0.14	61.70a	0.151a
St.dev	0.71	3.323	0.01	1.77	0.00	39.60	0.004
01:002 Count	2	2	2	2	2	2	2
Mean	10.28	67.500	0.06	51.30a	0.14	78.15a	0.156a
St.dev	0.59	3.536	0.01	3.25	0.01	9.55	0.002
02:004 Count	2	2	2	2	2	2	2
Mean	9.93	64.450	0.06	55.70a	0.13	71.60a	0.159a
St.dev	0.53	0.636	0.01	0.71	0.01	0.28	0.000
04:006 Count	2	2	2	2	2	2	2
Mean	9.72	70.200	0.06	55.40a	0.12	126.70c	0.164a
St.dev	0.02	0.707	0.00	0.99	0.06	7.92	0.006

a(11) > Exceeds CLASS-1 limit.

c( 1) > Exceeds CLASS-3 limit.



Tab.width cont'd J65, 90S Outer Orkdalsfjord, 920830.

Slice.Depth cm up:lower	TDEPP	DD	ΣΣ	HCHA	HCHG	HC	Σ3	HCB	QCB	OCS	NAP	NAP2M	NAP1M	BLPN	NAPDI	NAPIM	ACNLE	ACNE	FILE	PA	ANT	PAMI	FLU	PYR	BAA
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001																									
Count	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
Mean	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	s16.00	s2.00	s<1.00	s<1.00	s2.00	s<1.00	s<1.00	<<1.00	14.00	<<2.00	2.50	36.00	25.50	11.50	
St.dev	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								0.00	1.41	1.41	2.12	9.90	9.19	2.12	
01:002																									
Count																									
Mean																									
St.dev																									
02:003																									
Count																									
Mean																									
St.dev																									
02:004																									
Count																									
Mean																									
St.dev																									
03:004																									
Count																									
Mean																									
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04:006																									
Count																									
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06:010																									
Count																									
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08:009																									
Count																									
Mean																									
St.dev																									
10:015																									
Count																									
Mean																									
St.dev																									
13:014																									
Count																									
Mean																									
St.dev																									
15:020																									
Count																									
Mean																									
St.dev																									
17:018																									
Count																									
Mean																									
St.dev																									
21:022																									
Count																									
Mean																									
St.dev																									
22:027																									
Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.20a	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	8.00	<1.00	<1.00	28.00	19.00	11.00
St.dev	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26:027																									
Count																									
Mean																									
St.dev																									
30:035																									
Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	1.00	4.00	1.00	8.00	6.00	3.00
St.dev	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40:045																									
Count																									
Mean																									
St.dev																									

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Tab.width cont'd J65, 90S Outer Orkdalsfjord, 920830.

Slice.Depth cm up:lower	CHR ppb	BBF ppb	BJKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBA3A ppb	BGHIP ppb	COR ppb	DBP ppb	DI_ΣΣ ppb	PA_ΣΣ ppb	PK_ΣΣ ppb	PARΣΣ ppb
00:001	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
00:002	Count	2	2	2	2	2	2	2	2	2	2	1	1	2	1
	Mean	21.50	38.50	37.00	27.00a	40.50	44.50	5.00	43.00	<<1.00	<<1.00	s<21.00	<496.00	<<222.00	<496.00a
	St.dev	3.54	7.78	9.90	7.07	2.12	2.12	0.00	0.00	0.00	0.00	.	.	38.18	.
01:002	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:003	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
03:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
04:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
05:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
06:010	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
08:009	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10:015	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
13:014	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
17:018	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
21:022	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22:027	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	17.00	63.00	23.00	23.00a	73.00	38.00	4.00	40.00	<1.00	<1.00	s<1.00	s<377.00	<166.00	s<377.00a
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
26:027	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30:035	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	7.00	s27.00	<1.00	4.00	34.00	12.00	1.00	16.00	<1.00	<1.00	s<1.00	s<127.00	s<48.00	s<127.00
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40:045	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Sample.area: J99 Undefined. All concentrations on Dry-weight basis.  
 Locality : 93S Raudøya (northeast of ), Latitude: 64°22.70N, Longitude: 10°27.80E  
 Sample date: 920829 , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "m" then <63µm.

MOCON	CORG	Li	Cd	Cu	Hg	Pb	Zn	Pb210	CB28	CB52	CB101	CB105	CB118	CB138	CB153	CB156	CB180	CB209	CB ̳7	CB ̳E	DDEPP
%	ppt	ppm	ppm	ppm	ppm	ppm	ppt	mBq/g	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	1	3	3	3	3	3	3	1													
Count	17.97	19.500	0.12	23.50	0.03	25.33	0.073	182.83													
Mean	0.83	0.500	0.02	2.00	0.01	0.76	0.004														
St.dev																					
00:002																					
Count																					
Mean																					
St.dev																					
01:002	1	2	2	2	2	2	2	1													
Count	18.55	20.500	0.12	21.50	0.04	26.25	0.075	134.83													
Mean	0.07	0.000	0.00	0.71	0.01	0.35	0.001														
St.dev																					
02:003	1							1													
Count	63.77							113.00													
Mean																					
St.dev																					
02:004																					
Count																					
Mean																					
St.dev																					
03:004	1							1													
Count	17.45	20.000	0.13	24.00	0.04	26.00	0.075														
Mean	1.20	0.707	0.03	0.00	0.00	0.71	0.002														
St.dev																					
04:006																					
Count																					
Mean																					
St.dev																					
05:006	1							1													
Count	57.39							113.00													
Mean																					
St.dev																					
06:010																					
Count																					
Mean																					
St.dev																					
08:009	1							1													
Count	14.95	20.000	0.15	22.00	0.03	22.50	0.070														
Mean	1.34	2.121	0.01	2.12	0.01	2.83	0.006														
St.dev																					
10:015																					
Count																					
Mean																					
St.dev																					
13:014	1							1													
Count	10.70	11.500	0.20	16.75	<0.01	13.75	0.041														
Mean	0.28	2.121	0.04	1.06	0.00	5.30	0.011														
St.dev																					
15:020																					
Count																					
Mean																					
St.dev																					
20:022																					
Count																					
Mean																					
St.dev																					
20:023																					
Count																					
Mean																					
St.dev																					
25:026	1							1													
Count	59.37							31.83													
Mean																					
St.dev																					
31:032	1							1													
Count	58.80							0.00													
Mean																					
St.dev																					

s (22)  
 miss( 1)  
 a ( 1)  
 ! Suspect value(s)  
 ! Missing value.  
 > Exceeds CLASS-1 limit.

Tab.width cont'd J99, 93S Raudøya (northeast of), 920829.

slice.Depth cm up:lower	TDPEP	DD	ΣΣ	HCHA	HCHG	HC	Σ3	HCB	QCB	OCS	NAP	NAP2M	NAP1M	BIPN	NAPDI	NAP1M	ACNE	ACNE	FLE	PA	ANT	PAMI	FLU	PYR	BAA
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<1.00	<<1.00	<<1.00	<<1.00	<<1.50	<<1.00	<<1.00	<<1.00	<<1.00	12.50	<<2.00	4.50	38.00	21.00	7.50
00:002	St.dev	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	3.54	1.41	0.71	25.46	11.31	2.12
01:002	Count																								
	Mean																								
02:003	St.dev																								
	Count																								
	Mean																								
02:004	Count																								
	Mean																								
	St.dev																								
03:004	Count																								
	Mean																								
04:006	Count																								
	Mean																								
	St.dev																								
05:006	Count																								
	Mean																								
06:010	Count																								
	Mean																								
	St.dev																								
08:009	Count																								
	Mean																								
10:015	Count																								
	Mean																								
	St.dev																								
13:014	Count																								
	Mean																								
15:020	Count																								
	Mean																								
	St.dev																								
20:022	Count																								
	Mean																								
	St.dev																								
20:023	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<1.00	<<1.00	<<1.00	<<1.00	<<1.00	<<1.00	<<1.00	<<1.00	<<1.00	19.50	<<1.00	3.50	29.00	16.00	3.00
	St.dev	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.78	0.00	0.71	14.14	7.07	2.83
25:026	Count																								
	Mean																								
	St.dev																								
31:032	Count																								
	Mean																								



Tab.width cont'd J99, 93S Raudøya (northeast of), 920829.

slice.Depth cm up:lower	CHR ppb	BBF ppb	BJKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBA3A ppb	BGHIP ppb	COR ppb	DBP ppb	DI_ΣΣ ppb	PA_ΣΣ ppb	PK_ΣΣ ppb	PAHΣΣ ppb
00:001	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
00:002	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	1
	Mean	12.00	16.50	13.50a	7.50	38.00	5.00	30.00	30.00	<<1.00	<<1.00	<<276.00	<<132.00	<<269.00	
	St.dev	0.00	2.12	2.12	0.71	7.07	1.41	1.41	1.41	0.00	0.00	1.41	9.90	16.97	
01:002	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:003	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
03:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
04:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
05:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
06:010	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
08:009	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10:015	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
13:014	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20:022	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20:023	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	6.00	s41.00	<<9.50	11.50	29.50	<<3.00	28.50	28.50	<<1.00	<<1.00	s<<1.00	s<<206.50s<<83.50	s<<206.50	
	St.dev	5.66	38.18	12.02	0.71	33.23	2.83	27.58	27.58	0.00	0.00	163.34	86.97	163.34	
25:026	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
31:032	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Sample.area: J99 Undefined. All concentrations on Dry-weight basis.  
 Locality : 955 Rodø (east of), Latitude: 66°41.80N, Longitude: 13°09.90E  
 Sample date: 920827, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless <sup>1000</sup> then <63µm.

Slice.Depth cm	MOCON	CORG	Li	Cd	Cu	Hg	Pb	Zn	Pb210	CB28	CB52	CB101	CB105	CB118	CB138	CB153	CB156	CB180	CB209	CB_E7	CB_EE	DDEPP
up: lower	%	ppt	ppm	ppm	ppm	ppm	ppm	ppt	mBq/g	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	Count	3	3	3	3	3	3	3	1													
	Mean	12.97	26.667	0.08	19.50	0.04	30.50a	0.085	156.17													
	St.dev	1.52	1.528	0.01	1.50	0.01	1.80	0.007														
00:002	Count									2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean									<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50
	St.dev									0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01:002	Count	1	2	2	2	2	2	2	1													
	Mean	60.56	29.000	0.08	19.50	0.04	31.25a	0.089	130.17													
	St.dev	0.28	0.707	0.01	2.12	0.01	1.77	0.001														
02:003	Count	1							1													
	Mean	61.27							154.50													
02:004	Count		2	2	2	2	2	2														
	Mean		13.60	0.10	19.75	0.04	30.50a	0.086														
	St.dev		0.85	0.000	0.04	0.01	3.54	0.004														
03:004	Count	1							1													
	Mean	60.83							159.83													
04:005	Count	1							1													
	Mean	59.43							166.00													
04:006	Count		2	2	2	2	2	2														
	Mean		12.95	0.08	19.50	0.04	30.00	0.084														
	St.dev		1.20	0.01	1.41	0.01	1.41	0.004														
05:006	Count	1							1													
	Mean	58.25							140.00													
06:010	Count		2	2	2	2	2	2														
	Mean		13.00	0.08	18.25	0.04	28.50	0.083														
	St.dev		1.27	0.01	1.06	0.01	0.00	0.004														
08:009	Count	1							1													
	Mean	56.83							144.00													
10:015	Count		2	2	2	2	2	2														
	Mean		13.10	0.11	19.25	0.03	23.75	0.082														
	St.dev		0.42	0.01	0.35	0.00	2.47	0.001														
12:014	Count	1							1													
	Mean	54.03							2.17													
15:020	Count		2	2	2	2	2	2														
	Mean		12.30	0.14	18.75	0.01	17.25	0.073														
	St.dev		0.14	0.00	1.77	0.00	1.77	0.002														
18:020	Count	1							1													
	Mean	54.17							0.00													
20:025	Count		2	2	2	2	2	2														
	Mean		10.05	0.15	19.00	<0.01	15.75	0.075														
	St.dev		0.21	0.01	1.41	0.00	0.35	0.006														
24:026	Count	1							1													
	Mean	44.42							3.00													
25:030	Count																					
	Mean																					
	St.dev																					

r ( 4)  
 s (36)  
 miss( 2)  
 k ( 1)  
 a ( 6)  
 ! Replaced value included.  
 ! Suspect value(s)  
 ! Missing value.  
 Value= 1000 \* given units.  
 > Exceeds CLASS-1 limit.



Tab.width cont'd J99, 95S Rodø (east of), 920827.

Slice.Depth cm up:lower	CHR	BBF	BJKF	BEP	BAP	PER	ICDP	DEA3A	BGHIP	COR	DBP	DI_ΣΣ	PA_ΣΣ	PK_ΣΣ	PAHΣΣ
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
00:002	Count	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	14.00	miss	25.50	14.50a	3.50	43.00	41.00	<<1.00	<<1.00	<<1.00	<<25.00	<<293.00	<<147.00	s<<0k32a
	St.dev	5.66	23.33	14.85	3.54	0.71	2.83	0.00	4.24	0.00	0.00	26.87	9.90	11.31	17.68
01:002	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:003	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
03:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
04:005	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
04:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
05:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
06:010	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
08:009	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10:015	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12:014	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15:020	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	5.00	s16.00	<1.00	1.00	<1.00	8.00	<1.00	10.00	<1.00	<1.00	s<87.00	s<57.00	s<27.00	s<143.00
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20:025	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24:026	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25:030	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.00	<1.00	<1.00	s<58.00	<26.00	<1.00	s<83.00

2

Sample.area: J99 Undefined. All concentrations on Dry-weight basis.  
 Locality : 99S Lundy (north of), Latitude: 68°05.80N, Longitude: 15°10.10E  
 Sample date: 920826 , Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless "u" then <63µm.

MOON	CORG	Li	Cd	Cu	Hg	Pb	Zn	Pb210	CB28	CB52	CB101	CB105	CB118	CB138	CB153	CB156	CB180	CB209	CB 27	CB 28	ΣΣ DDEPP
%	ppt	ppm	ppm	ppm	ppm	ppm	ppt	mBq/g	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	3	3	3	3	3	3	3	1													
74.14	9.50	58.167	0.10	18.80	0.04	39.00a	0.160a	259.50													
	0.50	1.155	0.01	1.66	0.01	0.00	0.003														
1	2	2	2	2	2	2	2	1													
66.15	8.95	60.250	0.08	19.85	0.04	40.00a	0.163a	186.33													
	0.21	1.768	0.03	3.75	0.00	0.71	0.006														
1								183.67													
64.01																					
	2	2	2	2	2	2	2														
	8.60	61.000	0.07	17.20	0.04	39.25a	0.164a														
	0.00	1.414	0.01	0.42	0.01	2.47	0.002														
1								161.83													
62.76																					
	2	2	2	2	2	2	2														
	8.70	61.250	0.07	18.30	0.04	40.25a	0.164a														
	0.28	0.354	0.00	1.70	0.01	1.77	0.001														
1								128.33													
61.40																					
	2	2	2	2	2	2	2														
	8.90	60.000	r0.07	r22.90	0.04	r35.50a	r0.155a														
	0.57	1.414	0.01	8.20	0.01	4.24	0.005														
1								71.00													
58.90																					
	2	2	2	2	2	2	2														
	8.35	60.750	0.12	17.60	0.03	36.25a	0.160a														
	0.07	2.475	0.01	1.27	0.00	1.06	0.004														
1								10.67													
57.23																					
	2	2	2	2	2	2	2														
	7.80	62.250	0.14	17.35	0.02	31.00a	0.155a														
	0.28	0.354	0.01	0.21	0.00	0.71	0.004														
1								-0.17													
55.45																					
								0.17													
53.80																					
	1	1	1	1	1	1	1														
	6.90	62.000	0.09	15.00	0.02	26.00	0.150														
	1	1	1	1	1	1	1														
	7.00	64.500	0.09	16.00	0.01	27.00	0.155a														

r( 4)  
 s(31)  
 a(17)

! Replaced value included.  
 ! Suspect value(s)  
 > Exceeds CLASS-1 limit.

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Tab.width cont'd J99, 99S Lundøy (north of), 920826.

Slice.Depth cm up:lower	TDEPP	DD	Σ	HCHA	HCHG	HC	Σ3	HCB	QCB	OCS	NAP	NAP2M	NAP1M	BIPN	NAPDI	NAPIM	ACNLE	ACNE	FILE	PA	ANT	PAMI	FLUJ	PYR	BAA
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001																									
	Count																								
	Mean																								
	St.dev																								
00:002	2	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	<<0.50	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Count	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.50	<<1.00	2.00	12.50	10.00	2.50
	Mean																			6.36	0.00	0.00	0.71	1.41	0.71
	St.dev																			0.00	0.00	0.00	0.00	0.00	0.00
01:002																									
	Count																								
	Mean																								
	St.dev																								
02:003																									
	Count																								
	Mean																								
	St.dev																								
02:004																									
	Count																								
	Mean																								
	St.dev																								
03:004																									
	Count																								
	Mean																								
	St.dev																								
04:006																									
	Count																								
	Mean																								
	St.dev																								
05:006																									
	Count																								
	Mean																								
	St.dev																								
06:010																									
	Count																								
	Mean																								
	St.dev																								
08:009																									
	Count																								
	Mean																								
	St.dev																								
10:015																									
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	Mean																								
	St.dev																								
13:014																									
	Count																								
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	St.dev																								
15:020																									
	Count																								
	Mean																								
	St.dev																								
19:020																									
	Count																								
	Mean																								
	St.dev																								
25:026																									
	Count																								
	Mean																								
	St.dev																								
31:036																									
	Count																								
	Mean																								
	St.dev																								
35:040																									
	Count	1	<0.50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	<0.50	<0.50	<0.50	1.90a	<0.50	<0.50	<0.50	<0.50	<0.50	s<1.00	s<1.00	s<1.00	s<1.00	s<1.00	s<1.00	s<1.00	s<1.00	<1.00	3.00	<1.00	6.00	2.00	1.00	<1.00
	St.dev																								
37:042																									
	Count	1	<0.50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	<0.50	<0.50	<0.50	0.60a	<0.50	<0.50	<0.50	<0.50	<0.50	s35.00	s19.00	s14.00	s5.00	s1.00	s<1.00	s4.00	s3.00	<1.00	2.00	<1.00	1.00	4.00	3.00	<1.00

Tab.width cont'd J99, 99S Lundø (north of), 920826.

	CHR	BBF	BJKF	BEP	BAP	PER	ICDP	DEA3A	BGHIP	COR	DBP	DI_ΣΣ	PA_ΣΣ	PK_ΣΣ	PAHΣΣ	
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
00:001																
	Count															
	Mean															
	St.dev															
00:002	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
	5.50	<1.00	<1.00	<1.00	<1.00	<1.00	19.00	2.50	12.00	<<1.00	<<1.00	<<108.50s	<<81.50	<<25.00	s<<189.00	
	4.95						7.07	2.12	2.83	0.00	0.00	14.85	24.75	9.90	9.90	
01:002																
	Count															
	Mean															
	St.dev															
02:003																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
03:004																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
04:006																
	Count															
	Mean															
	St.dev															
05:006																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
06:010																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
08:009																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
10:015																
	Count															
	Mean															
	St.dev															
13:014																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
15:020																
	Count															
	Mean															
	St.dev															
19:020																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
25:026																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
31:036																
	Count															
	Mean															
	Count															
	Mean															
	St.dev															
35:040	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2.00	2.00	1.00	2.00	2.00	2.00	3.00	<1.00	1.00	<1.00	<1.00	<27.00	<9.00	<27.00	<27.00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	s<75.00	<18.00	<1.00	s<92.00	
37:042																
	Count															
	Mean															

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Sample.area: J99 Undefined. All concentrations on Dry-weight basis.  
 Locality : 98S Skrova (south of), Latitude: 68°07.00N, Longitude: 14°41.00E  
 Sample date: 920825, Sampling Lab: NIVA, Type: GC, Diameter: 050  
 Est. sedimentation rate mm/year. Unfractionated sample unless noted otherwise then <63µm.

MOCON	CORG	Li	Cd	Cu	Hg	Pb	Zn	Pb210	CB28	CB52	CB101	CB105	CB118	CB138	CB153	CB156	CB180	CB209	CB_Σ7	CB_ΣΣ	DDEPP
%	ppt	ppm	ppm	ppm	ppm	ppm	ppt	mBq/g	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
00:001	Count	3	3	3	3	3	3	1													
	Mean	5.67	0.09	13.00	0.02	27.33	0.099	83.17													
	St.dev	0.42	0.01	1.00	0.00	0.76	0.004														
00:002	Count																				
	Mean																				
	St.dev																				
01:002	Count	1	2	2	2	2	2	1													
	Mean	5.15	0.10	13.00	0.02	27.25	0.099	76.17													
	St.dev	0.21	0.01	1.41	0.00	0.35	0.001														
02:003	Count	1						1													
	Mean	48.20						59.33													
02:004	Count	2	2	2	2	2	2	2													
	Mean	5.15	0.08	13.50	0.02	28.50	0.102														
	St.dev	0.21	0.01	0.71	0.00	0.00	0.001														
04:006	Count	2	2	2	2	2	2	2													
	Mean	5.15	0.10	12.75	0.02	27.25	0.100														
	St.dev	0.64	0.03	1.06	0.00	1.77	0.004														
05:006	Count	1						1													
	Mean	42.51						22.33													
06:010	Count	2	2	2	2	2	2	2													
	Mean	4.70	0.11	13.75	0.02	25.50	0.097														
	St.dev	0.14	0.01	0.35	0.00	0.71	0.003														
07:008	Count	1						1													
	Mean	41.45						8.33													
08:009	Count	1						1													
	Mean	40.46						6.00													
10:015	Count	2	2	2	2	2	2	2													
	Mean	4.25	0.10	11.75	<0.01	22.75	0.094														
	St.dev	0.21	0.01	1.06	0.00	0.35	0.001														
15:020	Count	2	2	2	2	2	2	2													
	Mean	3.85	0.10	11.75	<0.01	21.25	0.092														
	St.dev	0.07	0.01	1.06	0.00	0.35	0.002														
19:020	Count	1						1													
	Mean	37.92						0.00													
20:025	Count	1	1	1	1	1	1	1													
	Mean	3.50	0.09	9.50	<0.01	19.50	0.090														
20:027	Count	1	1	1	1	1	1	1													
	Mean	3.20	0.10	11.00	<0.01	21.00	0.100														
24:028	Count								1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean								<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
25:026	Count	1						1													
	Mean	34.36						-5.67													
29:034	Count								1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean								<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
31:032	Count	1						1													
	Mean	40.15						7.00													

s (32) ! Suspect value(s)  
 miss( 1) ! Missing value.

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Tab.width cont'd J99, 98S Skrova (south of), 920825.

Slice.Depth cm up:lower	CHR ppb	BBF ppb	BJKF ppb	BEP ppb	BAP ppb	PER ppb	ICDP ppb	DBA3A ppb	BGHIP ppb	COR ppb	DBP ppb	DI_ΣΣ ppb	PA_ΣΣ ppb	PK_ΣΣ ppb	PAHΣΣ ppb
00:001	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
00:002	Count	2	miss	2	2	2	2	2	2	2	2	2	2	2	2
	Mean	4.50	s19.00	5.50	<<1.00	<<1.00	3.50	<<1.00	6.00	<<1.00	<<1.00	s<<4.50	s<<83.00	s<<33.00	s<<86.50
	St.dev	2.12	1.41	2.12	0.00	0.00	2.12	0.00	1.41	0.00	0.00	4.95	28.28	7.07	23.33
01:002	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:003	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
02:004	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
04:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
05:006	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
06:010	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
07:008	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
08:009	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10:015	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
19:020	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20:025	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20:027	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24:028	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<15.00	<1.00	s<75.00
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25:026	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
29:034	Count	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Mean	1.00	1.00	2.00	2.00	3.00	3.00	1.00	1.00	<1.00	<1.00	<1.00	<19.00	<8.00	<19.00
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.
31:032	Count	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Mean	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	St.dev	.	.	.	.	.	.	.	.	.	.	.	.	.	.



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