Statsadministrasjonen

Dokumentliste

Sak

SØKNADER 1987.

Dok.nr.	Dato	Dokument (type, tittel)	Merknader

Liste over 14C-dateringer, TUFTER.

Å 10	Reinsgjerda	Vier	Ua-***	760	100
Å 11/1	Hollo 1	Bjørk, vier	Ua-***	765	70
Å 11/2	Hollo 2	Bjørk	Ua-859	845	100
Å 17	Vallehalli	Bjørk, vier	Ua-858	1235	100
Å 27	Osestølen	Furu	Ua-853	915	75
Å 149/1	Grasbakkan 1	Vier	Ua-856	640	100
Å 149/2	Grasbakkan 2	Vier	To-1401	1070	50
Å 149/3	Grasbakkan 3	Einer	To-1402	1200	90
Å 158/2	Skardgrovi 2	Bjørk	To-1403	820	50
Å 160	Storehovda	Bjørk, vier	T-8288	780	80
Å 168/1	Staurtjørn 1	Bjørk	To-1404	930	50
Å 172	Øvre Eitretj.	Bjørk	Ua-854	940	65
Å 181/2	Grytingen 2	Bjørk	T-8289	880	80
Å 181/3	Grytingen 3	Bjørk	T-8290	750	80
Å 191	Kolsrudstølen	Bjørk	T-8291	890	60
Å 196	Skard	Furu	To-1405	1220	50
Å 500	Skarvanstølen	Bjørk, vier	Ua-***	890	100
Ho 11/1	Langegard	Bjørk	T-7970	750	40
Ho 112	Varaldset	Bjørk, einer	T-8287	750	60
Ho 136	Osmundset	Bjørk	Ua-851	970	100
Ho 138	Byrkjedalstøy.	Bjørk	Ua-855	600	75
Ho 200	Urdevassbotn	Bjørk	Ua-857	1140	95

UNIVERSITETET I OSLO

OLDSAKSAMLINGEN
FREDERIKS GATE 2, 0164 OSLO 1
TELEFON (02) 41 63 00

UNIVERSITY MUSEUM OF
NATIONAL ANTIQUITIES
FREDERIKS GATE 2, 0164 OSLO 1

KOPI

Gøran Possnert,
Tandemacceleratorlaboratoriet,
Box 533,
751 21 UPPSALA,
Sverige.

OSLO, 22. mars 1988.

SAKSBEHANDLER:

DERES REF.:

VAR REF.: (BES OPPGITT VED SVAR) IL/gi

DATERINGER, HALLINGDALSPROSJEKTET.

Jeg viser til telefonsamtale mellom deg og Tom Bloch-Nakkerud den 16. mars 1988.

I 1987 fikk vi innvilget 20 dateringer. Av denne kvoten har jeg (i desember 1987) 9 prøver til datering hos deg. Tom Bloch-Nakkerud har i alt også innlevert 9 prøver. Dermed står det igjen 2 ubrukte innvilgede dateringer for 1987.

Når det dreier seg om 1988 fikk vi dessverre ikke innsendt søknadsskjema. Håper ikke det er for sent på dette tidspunkt. Som du kanskje har sett av prosjektplanen som jeg sendte deg, er vi langt på vei et dateringsprosjekt. Vi er derfor helt avhengig av et større antall dateringer både i 1988 og i 1989. Vi håper også på et samarbeid med deg når alle dateringene foreligger. Bl.a. ser vi statistiske problemstillinger med hensyn på 14C-dateringene. Vi vil antakelig også ha behov for en drøfting av callibreringene i middelalderen. Det virker som om vi har en nedgang i utnyttelsen av fjellet (jern, skinn etc.) god tid før Svartedauen (pesten) kom til Norge.

Vi håper at det er mulig å innvilge oss 20 prøver for 1988.

Med hilsen

Inge Lindblom

Vedlegg: Årsrapport for Hallingdalsprosjektet 1987.

ANSÖKNINGSBLANKETT FÖR ^{14}C-ACCELERATORDATERING.

Projektområde(arkeologi,geologi,oceanografi etc): ARKEOLOGI

Kortfattad projektbeskrivning(eventuella referenser kan bifogas separat):

SE VEDLEGG.

Antal prover: ca 20

Provtyp(träkol,skal,gyttja,ben etc): Trekull evt. ben.

Dateringen bekostas av: HALLINGDALSPROSJEKTET, UNIVERSITETETS OLDSAKSAMLING

När kommer proverna att inlämnas: AUGUST - SEPTEMBER.

Ansökarens namn: INGE LINDBLOM + TOM BLOCH-NØRKERUD
adress: UNIVERSITETETS OLDSAKSAMLING
FREDRIKSGT 2
0164 OSLO 1

telefon: 02 - 41 63 00

Ansökan insänds till:

Göran Possnert
Tandemacceleratorlaboratoriet
Box 533
S-751 21 Uppsala

tel.018-18 30 59

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden
Tel. 018-183059

OBS !

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1 Sample collected at
place UREVASS BOTN
province HOL, BUSKERUD
country NORWAY
Lat. 60°40'45
Long., E 07°43
day AUGUST 1987
by: INGE LINDBLOM
address: UNIVERSITY OF OSLO
. MUSEUM OF NATIONAL ANTIQUITIES
. FREDRIKSGT 2
. N-0164 OSLO 1
responsible person: INGE LINDBLOM

S3 Collector's sample code: HO ~~488~~ 200
Submitter's suggestion for name in date list
UREVASSBOTN

Date no. Result δC^{13} Remarks L2
U-
.
U-
.
U-
.

S2 Sample submitted by: INGE LINDBLOM
.
.
.
day AUGUST 1987

S4 Dating to be paid with money from
. LOKALHISTORIEUTVALGET FOR HALLINGDAL
Investigation supported by
. " "

L1 Sample accepted without reservations
with reservations
Doubts:
.
.

S5 Have any samples in this series been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

S7 Type of material: CHARCOAL
.
Species: BETULA
Determined by
. ARO SIMONSEN, STAVANGER.
.

S8 Size and carbon content etc.:

S9 Association to the research problem
Certain ☒
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE
. OF THE SITE.

S6 References
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

S10 Artefacts etc. associated to the sample
. NON

S11 Pollen analytical level or zone
.
.
according:
analyses by:

S12 Diatoms indicate:
.
.
analyses by

S13 Other correlation
.

S14 Roots in the sample?
Sample sieved?
Sample treatment DRYING
.

L3 Dating list no. HC p.
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured

Sample book:
Year:
p.:

S15 Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

S1 Estimated age 800 BP.
rate

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden
Tel. 018-18 30 59

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1
Sample collected at BYRKEDALSSTØLEN SØRE
place
province HOL, BUSKERUD
country NORWAY
Lat. 60° 38' 30
Long., G. 07°56'
day AUGUST 1987
by: INGE LINDBLOM
address: UNIVERSITY OF OSLO
. MUSEUM OF NATIONAL ANTIQUITIES
. FREDRIKSGT 2
. N-0164 OSLO 1
responsible person:

S3
Collector's sample code: Ho 138 (OBS)
Submitter's suggestion for name in date list
~~[illegible]~~ BYRKEDALSSTØLEN

L2
Date no. Result δC13 Remarks
U-
.
U-
.
U-
.

S2
Sample submitted by: INGE LINDBLOM
.
.
.
.
day AUGUST 1987

S4
Dating to be paid with money from
. LOKALHISTORIEUTVALGET i HALLINGDAL
Investigation supported by
— 11 —
.

L1
Sample accepted without reservations
with reservations
Doubts:
.
.

S5
Have any samples in this series
been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

S7
Type of material: CHARCOAL
.
Species: ~~[illegible]~~ ~~[illegible]~~ BETULA
Determined by
. AUD SIMONSEN

S8
Size and carbon content etc.:

S6
References
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.

S9
Association to the research problem
Certain X
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE
. OF THE SITE

S10
Artefacts etc. associated to the sample
. NON

L3
Dating list no. RC p.
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured

Sample book:
Year:
p.:

S11
Pollen analytical level or zone
.
.
according:
analyses by:

S12
Diatoms indicate:
.
.
analyses by

S13
Other correlation

S14
Roots in the sample?
Sample sieved?
Sample treatment DRYING.
.

S15
Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

S16
Estimated age 800 BP.
rate

GÖRAN POSSNERT
Tandemacceleratorlab
Box 533
S-751 21 UPPSALA Sweden
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1 Sample collected at OSMUNDSET
place
province HOL, BUSKERUD
country NORWAY.
Lat. 60°43'
Long., G. 07°48'
day AUGUST 1978
by: INGE LINOBLOM
address: UNIVERSITY OF OSLO
. MUSEUM OF NATIONAL ANTIQUITIES
. FREDRIKSGT 2
. N-0164 OSLO 1.
responsible person: INGE LINOBLOM.

S3 Collector's sample code: HOL 136
Submitter's suggestion for name in date list
OSMUNDSET

Date no. Result δC^{13} Remarks L2
U-
.
U-
.
U-
.

S2 Sample submitted by:
. INGE LINOBLOM
.
.
.
day AUGUST 1978

S4 Dating to be paid with money from
. LOKALHISTORIE UTVALGET I HALLINGDAL
Investigation supported by
.

S5 Have any samples in this series been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

L1 Sample accepted without reservations CHARCOAL
with reservations
Doubts:
.
.

S7 Type of material:
.
Species: BETULA? (LØVTRE).
Determined by
.
.

S8 Size and carbon content etc.:

S9 Association to the research problem
Certain X
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE OF THE SITE.

S6 References
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

S10 Artefacts etc. associated to the sample
. NON
.

L3 Dating list no. RC p.
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

S11 Pollen analytical level or zone
.
.
according:
analyses by:

S12 Diatoms indicate:
.
.
analyses by

S15 Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

S13 Other correlation
.

S14 Roots in the sample?
Sample sieved?
Sample treatment
. NON

S16 Estimated age 800 BP
rate

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1 Sample collected at
place GRASBAKKANE
province ÅL, BUSKERUD
country NORWAY.
Lat. 60°45'
Long., G. 08°10'
day 12/8-87
by: INGE LINOBLOM
address: UNIVERSITY OF OSLO
· MUSEUM OF NATIONAL ANTIQUITIES
· FREDRIKSGT 2
· N-0164 OSLO 1.
responsible person: INGE LINOBLOM

S3 Collector's sample code: ~~Å-150/1~~ Å-149/1

Submitter's suggestion for name in date list
GRASBAKKAN 1.

Date no. Result δC13 Remarks **L2**
U-
.
U-
.
U-
.

S2 Sample submitted by: INGE LINOBLOM
.
.
.
day AUGUST 1987

S4 Dating to be paid with money from
. LOKALHISTORIEUTVALGET FOR HALLINGDAL.
Investigation supported by
. " "

L1 Sample accepted without reservations
with reservations
Doubts:
.
.

S5 Have any samples in this series been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

S7 Type of material: CHARCOAL
.
Species: SALIX
Determined by
. ARD SIMONSEN, STAVANGER
.

S8 Size and carbon content etc.:

S6 References
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

S9 Association to the research problem
Certain ☒
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐

Why is the sample submitted: TO DATE THE USE OF THE SITE.

S10 Artefacts etc. associated to the sample
.
.

L3 Dating list no. RC p.
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

S11 Pollen analytical level or zone
.
.
according:
analyses by:

S12 Diatoms indicate:
.
.
analyses by

S15 Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

S13 Other correlation
.

S14 Roots in the sample? DRYING.
Sample sieved?
Sample treatment
.

S16 Estimated age 800 BP.
rate

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1
Sample collected at
place OSESTØLEN
province ÅL, BUSKERUD.
country NORWAY
Lat. 60°43'
Long., 8.08°12'
day AUGUST 1987
by: INGE LINDBLOM
address: UNIVERSITY OF OSLO
. MUSEUM OF NATIONAL ANTIQUITIES
. FREDRIKSGT 2.
. N-0164 OSLO 1
responsible person: INGE LINDBLOM

S3
Collector's sample code: Å 27
Submitter's suggestion for name in date list
OSESTØLEN

Date no. Result δC^{13} Remarks L2
U-
.
U-
.
U-
.

S2
Sample submitted by: INGE LINDBLOM
.
.
.
day August 1987

S4
Dating to be paid with money from
. LOKALHISTORIEUTVALGET FOR HALLINGDAL
Investigation supported by //
.

S5
Have any samples in this series been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

L1
Sample accepted without reservations CHARCOAL
with reservations
Doubts:
.
.

S7
Type of material:
.
Species: LØVTRE.
Determined by
.
.

S8
Size and carbon content etc.:

S6
References
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

S9
Association to the research problem
Certain ☒
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐
LØVTRE
Why is the sample submitted: TO DATE THE USE
. OF THE SITE.

Dating list no. RC p.
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

S10
Artefacts etc. associated to the sample
. NON

S11
Pollen analytical level or zone
.
.
according:
analyses by:

S12
Diatoms indicate:
.
.
analyses by

S13
Other correlation
.

S14
Roots in the sample?
Sample sieved?
Sample treatment NON
.

S
Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

Estimated age 900 BP.
rate

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1 Sample collected at TVIST
place
province ÅL, BUSKERUD
country NORWAY
Lat. 60°44
Long., 08°10'
day AUGUST 1987
by: INGE LINDBLOM
address: UNIVERSITY OF OSLO
MUSEUM OF NATIONAL ANTIQUITIES
FREDRIKSGT 2
N-0164 OSLO 1
responsible person: INGE LINDBLOM

S3 Collector's sample code: Å 11/ 5
Submitter's suggestion for name in date list
TVIST 5

Date no. Result δC13 Remarks L2
U-
U-
U-

S2 Sample submitted by: INGE LINDBLOM
day AUGUST 1987

S4 Dating to be paid with money from
LOKALHISTORIEUTVALGET I HALLINGDAL
Investigation supported by "

L1 Sample accepted without reservations
with reservations
Doubts:

S5 Have any samples in this series been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:

S7 Type of material: CHARCOAL
Species: BETULA
Determined by
AVO SIMONSEN, STAVANGER

Size and carbon content etc.: S8

S9 Association to the research problem
Certain ☒
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE OF THE SITE

S6 References
Author
Journal
Vol. year pp.
Title
Author
Journal
Vol. year pp.
Title

S10 Artefacts etc. associated to the sample
NON

L3 Dating list no. RC p.
Cover
Storing
Mechanical treatment
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

S11 Pollen analytical level or zone
according:
analyses by:

S12 Diatoms indicate:
analyses by

S13 Other correlation

S14 Roots in the sample?
Sample sieved?
Sample treatment DRYING

S15 Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

S16 Estimated age 800 BP.
rate

KOPI Inge

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden"
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

Sample collected at S1
place Vadvatnet, Fausko og Brandvol, 82, 83
province Hemsedal, Buskerud
country Norway
Lat. 60 ° 58' N
Long., G. 08°27' E
day 18.08.1987
by: Tom Bloch-Nakkerud
address: University of Oslo
. Museum of National Antiquities
. Frederiks gate 2
. N-0164 Oslo 1
responsible person: Tom Bloch-Nakkerud

Collector's sample code: He 30 S3

Submitter's suggestion for name in date list
Vadvatnet

Date no. Result δC^{13} **Remarks** L2
U-
.
U-
.
U-
.

Sample submitted by: S2
. Tom Bloch-Nakkerud
.
.
.
day 23.08.1987

Dating to be paid with money from S4
. Lokalhistorieutvalget for Hallingdal
Investigation supported by
. Lokalhistorieutvalget for Hallingdal

Have any samples in this series S5
been submitted to another lab?
Yes ☐ No ☒ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☒
Earlier results:
.
.

Sample accepted without reservations L1
with reservations
Doubts:
.
.

Type of material: S7
. Wood
Species: Betula
Determined by Tom Bloch-Nakkerud
.
.

Size and carbon content etc.: S8

References S6
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

Association to the research problem S9
Certain ☐
Almost certain ☒
High probability ☐
Reasonable probability ☐
Low probability ☐

Why is the sample submitted: To date the death of wood used as cover over a reindeer pitfall.

Artefacts etc. associated to the sample S10
Sample collected from the lowermost part of a 10 cm thick layer on flat stone in bottom.

Dating list no. RC p. L3
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

Pollen analytical level or zone S11
.
.
according:
analyses by:

Diatoms indicate: S12
.
.
analyses by

Other correlation S13
.

Sample supposed to consist of S15
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

Roots in the sample? S14
Sample sieved?
Sample treatment Pieces of wood (some with bark) picked by hand.

Estimated age 1500-600 years S16
rate

GÖRAN POSSNERT
Tandemacceleratorlab
Box 533
S-751 21 UPPSALA, Sweden
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

Sample collected at EITRETJERN S1
place
province ÅL, BUSKERUD
country NORWAY
Lat. 60°44'
Long., c. 08°15'
day 28/9-87
by: BIRTHE WEBER.
address: UNIVERSITY OF OSLO
· MUSEUM OF NATIONAL ANTIQUITIES
· FREDRIKSGT 2
· N-0164 OSLO 1.
responsible person: INGE LINOBLOM

Collector's sample code: ÅL 172. S3
Submitter's suggestion for name in date list
EITRETJERN

Date no. Result δC^{13} Remarks L2
U-
.
U-
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U-
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Sample submitted by: INGE LINOBLOM S2
.
.
.
.
day SEPTEMBER 1987

Dating to be paid with money from S4
. LOKALHISTORIEUTVALGET I HALLINGDAL.
Investigation supported by
. //

Have any samples in this series S5
been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

Sample accepted without reservations L1
with reservations
Doubts:
.
.

Type of material: CHARCOAL. S7
.
Species: BETULA (ALNUS)
Determined by
.
.

Size and carbon content etc.: S8

References S6
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

Association to the research problem S9
Certain ☒
Almost certain ☐
High probability ☐
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE
. OF THE SITE.

Dating list no. RC p. L3
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

Artefacts etc. associated to the sample S10
· IRON ARTEFACTS.
.

Pollen analytical level or zone S11
.
.
according:
analyses by:

Diatoms indicate: S12
.
.
analyses by

Other correlation S13
.

Roots in the sample? S14
Sample sieved? NON
Sample treatment
.

Sample supposed to consist of S15
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

Estimated age S16
rate 800 BP.

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA. Sweden"
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

Sample collected at $1
place GRAVABOTTEN
province ÅL, BUSKERUD
country NORWAY
Lat. 60°49'
Long., E. 08°17'
day 28/9-87
by: OLA ELLINGSGARD, ÅL.
address: UNIVERSITY OF OSLO
. MUSEUM OF NATIONAL ANTIQUITIES
. FREDRIKSGT 2
. N-0164 OSLO 1
responsible person: INGE LINOBLOM

Collector's sample code: Å 151 $3
Submitter's suggestion for name in date list
GRAVABOTTEN

Date no. Result C^{13} Remarks L2
U-
.
U-
.
U-
.

Sample submitted by: INGE LINOBLOM. $2
.
.
.
day AUGUST 1987.

Dating to be paid with money from $4
. LOKALHISTORIE UTVALGET I HALLINGDAL.
Investigation supported by
. ——— 11 ———

Have any samples in this series $5
been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
.
.

Sample accepted without reservations L1
with reservations
Doubts:
.
.

Type of material: CHARCOAL. $7
.
Species: BETULA.
Determined by
.
.

Size and carbon content etc.: $8

References $6
Author
Journal
Vol. year pp.
Title
.
Author
Journal
Vol. year pp.
Title
.
.

Association to the research problem $9
Certain ☐
Almost certain X
High probability ☐
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE
. OF THE SITE.

Artefacts etc. associated to the sample $10
. NON

Dating list no. RC p. L.
Cover
Storing
Mechanical treatment
.
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

Pollen analytical level or zone $11
.
.
according:
analyses by:

Diatoms indicate: $12
.
.
analyses by

Other correlation $13
.

Roots in the sample? $14
Sample sieved?
Sample treatment NON.
.

Sample supposed to consist of $1
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

Estimated age 800 BP. $
rate

GÖRAN POSSNERT
Tandemacceleratorlab.
Box 533
S-751 21 UPPSALA, Sweden"
Tel. 018-183059

Only 1 sample per paper
Please type English or Swedish
FILL IN BOXES S1-S17

S1
Sample collected at
place VALLEHALLI
province ÅL, BUSKERUD
country NORWAY
Lat. 60°45'50
Long., E. 08°06
day AUGUST 1987
by: INGE LINOBLOM
address: UNIVERSITY OF OSLO
· MUSEUM OF NATIONAL ANTIQUITIES
· FREDRIKSGT 2
· N-0164 OSLO 1
responsible person: INGE LINOBLOM

S3
Collector's sample code: Å 17
Submitter's suggestion for name in date list
VALLEHALLI

Date no. Result δC^{13} Remarks L2
U-
·
U-
·
U-
·

S2
Sample submitted by:
INGE LINOBLOM
·
·
·
day AUGUST 1987.

S4
Dating to be paid with money from
·LOKALHISTORIEUTVALGET FOR HALLINGDAL
Investigation supported by
·

S5
Have any samples in this series been submitted to another lab?
Yes ☐ No ☐ What lab:
Is this sample a duplicate sample?
Yes ☐ No ☐
Earlier results:
·
·

L1
Sample accepted without reservations ☐
with reservations ☐
Doubts:
·
·

S7
Type of material: (WOOD) CHARCOAL.
·
Species: BETULA, SALIX.
Determined by
· AUD SIMONSEN, STAVANGER.
·

S8
Size and carbon content etc.:

S6
References
Author
Journal
Vol. year pp.
Title
·
Author
Journal
Vol. year pp.
Title
·
·

S9
Association to the research problem
Certain ☐
Almost certain ☐
High probability X
Reasonable probability ☐
Low probability ☐
Why is the sample submitted: TO DATE THE USE OF THE SIZE.

L3
Dating list no. RC p.
Cover
Storing
Mechanical treatment
·
Chemical treatment
Amount g wet ☐ moist ☐ dry ☐
Pretreated g After pretreatment g
Combustion of g → cm Hg 10 l
Repurified Diluted Measured
Sample book:
Year:
p.:

S10
Artefacts etc. associated to the sample
· NON
·

S11
Pollen analytical level or zone
·
·
according:
analyses by:

S12
Diatoms indicate:
·
·
analyses by

S13
Other correlation
·

S14
Roots in the sample?
Sample sieved?
Sample treatment Drying
·

S1
Sample supposed to consist of
Submersed plants?
Salt water origin?
Brackish water origin?
Soft water origin?
Hard water origin?
Humus infiltration?
Old carbonaceous contamination?
Indication of erosion?

S
Estimated age 800 BP
rate

ISOTRACE LABORATORY ANALYTICAL SERVICES

RADIOCARBON SAMPLE SUBMISSION FORM

For IsoTrace use only	Sheet 1 of
Date Received:	
Project Name:	
Sample Code:	Location:

General Instructions

Please type or print; check appropriate boxes.
If space is insufficient append additional pages.
Please append any already existing sample data sheets.
For additional information, telephone (416) 978-2241

Return this form with the sample to:

IsoTrace Laboratory - Sample Preparation
University of Toronto
60 St. George Street
Toronto, Canada M5S 1A7

Submitter's Name: INGE LINDBLOM

Submitter's Sample Number: Å168/1, Å196 Å39a, Å149/2, Å149/3, Å158b, Å199

Sample Material: (include species name if possible) CHARCOAL, BIRCH, PINE, SALIX, JUNIPER (See Bag's)

Weight of Sample Submitted:

Sample Collector: INGE LINDBLOM

Date of Collection: AUGUST 1988

Sample Identifier: AUD SIMONSEN

Number of Machine-ready Samples to be analysed: (Consult price list)

Can the entire sample as submitted be used for dating? Yes [X] No [ ]

If all the sample cannot be used, please add any special sectioning instructions on a sketch or photo of the sample.

Should any unused sample material be returned ? Yes [ ] No [X]

Estimated age or age range and basis for estimate:

600 - 1100 BP.

Have you other datable material from the same horizon? Yes [X] No [ ] from adjacent horizons? Yes [ ] No [X]
Describe briefly (type of material, degree of association to submitted sample).

Significance of this particular sample; reason for dating.

Have you submitted, or do you plan to submit, samples dating the same event to another laboratory? Yes [ ] No [X]
If so, we would appreciate receiving the results for our records.

Radiocarbon Sample Submission Form

Sheet 2 of

Geographic location - country: NORWAY - specific site:
BUSKERUD, ÅL.

- latitude: - longitude: - elevation

* TURN THE SHEET !

Site Description (e.g. grave, dwelling, river bed, lake floor)

DWELLING, OPEN.

Local Stratigraphy: please append a sketch showing the sample position relative to the major strata at the site. Give special attention to carbon-containing layers.

Sample Location - on present surface ☐ - or buried 0.10-0.20 metres below surface.

- or partly exposed ☐ . Indicate on the above sketch which parts were exposed or buried.

Presence of possible sources of contamination in the local environment:

volcanoes ☐ hot springs ☐ high pollution area ☐ area or high pesticide use ☐

other phenomena which may cause anomalous dates (specify)

Details of the immediate environment in which the sample was found:

- material (soil, sand, clay)

SOIL/SAND

- indicate the presence of the following carboniferous materials:

vegetation ☐, humus ☒, charcoal ☐, carbonates (hard water marks) ☐

other (specify)

- additional details:

Possible contaminants evident on or in the sample itself when found:

root penetration ☐, microbial growth ☐, animal activity ☐, unusual odours ☐,

deposits, encrustations ☐, other (specify)

additional details:

History of water contact with the sample:

little or no exposure to water ☒, constant or near constant immersion in water ☐,

periodic wetting and drying (intermittent rains and/or flooding) ☐

additional details:

Radiocarbon Sample Submission Form

History of temperature in sample environment:

primarily freezing [X], periodic freezing and thawing [ ], primarily temperate [ ],

tropical [ ], desert-like [ ]; additional details:

Post collection history of the sample:

Describe any washing or cleaning performed. If contaminants (e.g. rootlets) were removed, describe how.

COLD WATER

Describe any drying carried out (method, temperature, duration).

AIR DRYING

List any chemical agents applied to sample (e.g. preservatives). Give chemical composition and/or trade name.

Describe sample storage (location, duration, packaging).

Please supply any other available information about the sample below and on additional sheets if necessary.