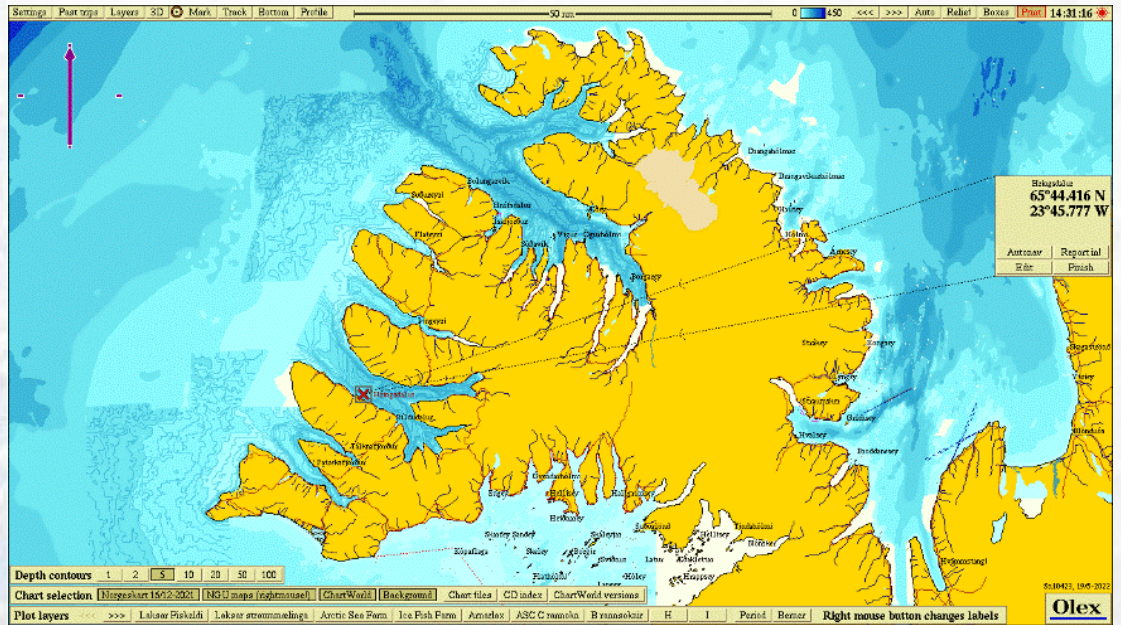


Hringsdalur, Arnarlax
B survey,
April 2022
(post fallow)



Information client			
Title	Hringsdalur, Arnarlax. B survey (post fallow), April 2022		
Report number	APN-64042.B01		
Site name	Hringsdalur	Coordinates site	65°44,416N 023°45,777V
County	Barðastrandarsýsla	Municipality	Vesturbyggð
MTB-or estimated max biomass	9.600 tonnes	Site manager/contact	Silja Baldvinsdóttir
Client name	Arnarlax		

Biomass/production/status at date of survey			
Biomass at date of survey	0 t	Feed use	0 t
Fish type	Salmon	Amount produced	
Type/time of survey	Mark with X	Comments	
At maximal biomass see kap 7.9	<input type="checkbox"/>	The farm has been expanded and moved since the last production. Samples were taken at the current farm position.	
A follow up survey	<input type="checkbox"/>		
Half maximal biomass	<input type="checkbox"/>		
Survey prior to putting out smolt	<input checked="" type="checkbox"/>		
A pre-survey new site	<input type="checkbox"/>		
Other	<input type="checkbox"/>		
Last following period:	April 2020		

Results from B-survey according to NS 9410:2016 (main results)			
Parameters and indexes		Parameters and site status	
Gr. II. pH/Eh	0,00	Gr. II. pH/Eh	1
Gr. III. Sensory	0,47	Gr. III. Sensory	1
GR. II + III	0,23	GR. II+ III	1
Date fieldwork	26.04 2022	Date report	25.05.22
Site status (NS 9410:2016):			1

Report writing and project leader	Arnþór Gústavsson	Signature	<i>Arnþór Gústavsson</i>
Quality control	Astrid Harendza	Signature	

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Preface

The survey is carried out in accordance to the Norwegian standard NS 9410:2016 - "Environmental monitoring of benthic impact from marine fish farms". Impact assessment is based on sediment condition (chemistry, sensory & presence/absence of fauna). The environmental survey is regulated by § 35 in the Norwegian "akvakulturdriftsforskriften". The survey also fulfills the requirements regarding seabed surveys outlined in the standard ISO 12878.

The primary objective of a B-survey is to assess the benthic impact beneath and in the close vicinity (near zone) of a marine fish farm by applying methods, thresholds and classifications as defined in NS9410:2016. The current survey was undertaken after fallowing and prior to the start of a new production cycle. After the last production cycle the farm has been expanded and moved within the defined farming area. Sampling stations in this survey are placed within the near zone of the current farm location. Hringsdalur has an estimated max biomass of 9.600 t and thus a total of 25 stations were sampled.

The following have participated in the survey:


Arnþór Gústavsson	Akvaplan-niva AS	Prosjektleder.
Arnþór Gústavsson	Akvaplan-niva AS	Fieldwork and Report. Charts (Olex).
	Akvaplan-niva AS	Quality assurance

The sampling at Hringsdalur was done 26.04 2022.

Accredited survey:

The following parts of the survey are done in accordance with accreditation methods:

Sampling and treatment of sediment samples, analysis of samples and evaluations of the results. Thresholds and classifications of assessment criteria applied in this report are based on Norwegian environmental conditions as Iceland specific criteria have yet not been developed. This should be taken into consideration when reviewing site status.

	Akvaplan-niva AS er akkreditert av Norsk Akkreditering for prøvetaking og faglig vurderinger og fortolkninger, akkrediteringsnummer TEST 079. Akkrediteringen er iht. NS-EN ISO/IEC 17025 Akkrediteringen omfatter bla. NS 9410, NS-EN ISO 5667-19 og NS-EN ISO 16665.
-------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Akvaplan-niva AS thanks Arnarlax and their personnel for the cooperation during the conductance of this site survey.

Kópavogi 25. May 2022

Arnþór Gústavsson
Project manager

1 Introduction

Sampling was undertaken on 26.04 2022 by Akvaplan-niva AS, who has been contracted by Arnarlax in relation to the company's fish farming activity at the site Hringsdalur in Arnarfjörður, Vesturbyggð municipality.

The objective of the B-survey is to document the environmental condition in the near zone of a fish farm by evaluating sediment condition (chemistry, sensory & presence/absence of fauna) as defined in NS 9410:2016 (and ISO 12878). The B-survey is a tool for trend monitoring and allows to assess the status of organic enrichment beneath the net pens at various stages of the production cycle.

The here presented survey was undertaken after fallowing and prior the start of the next production cycle. The farm has been expanded and moved to a new position within the defined farming area. Sampling stations in this survey are placed within the near zone of the current farm location. Hringsdalur has an estimated max. biomass of 9.600 t and thus a total of 25 stations were sampled.

Figure 1 shows a map of the southern part of Vestfirðir where Hringsdalur is located in the fjord Arnarfjörður.

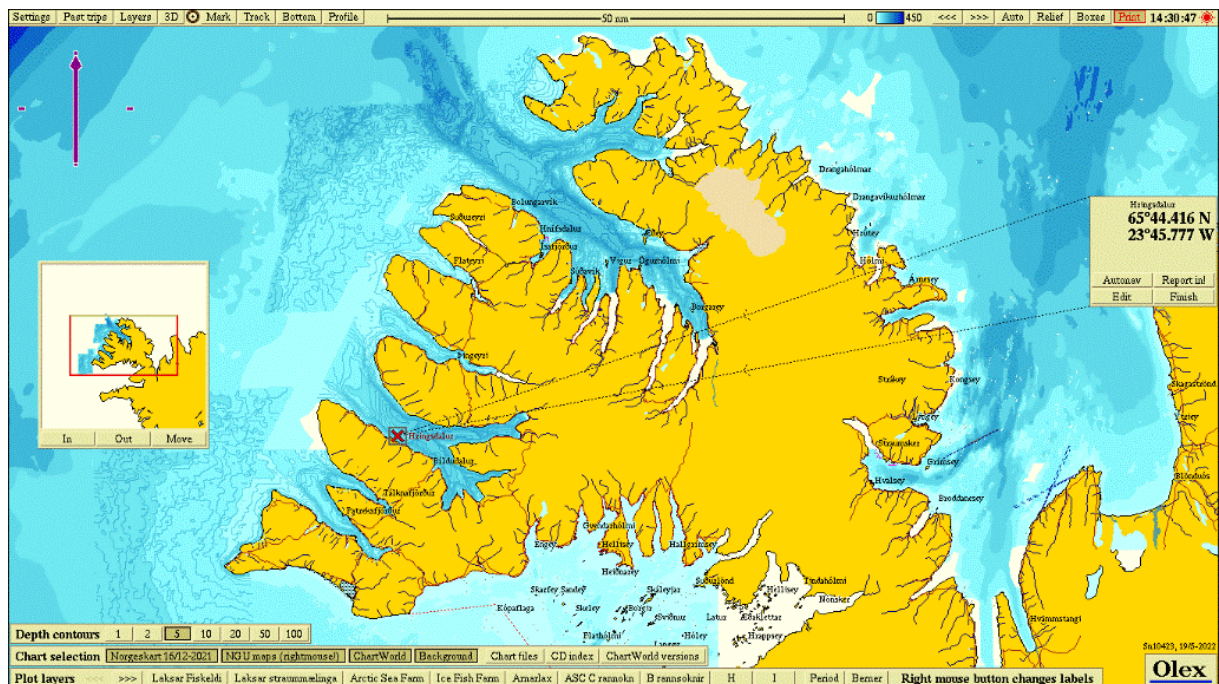


Figure 1. An overview map where Hringsdalur is marked with a red cross.

2 Methods

Monitoring of the environmental impact of fish farming activities on the seabed is standardised and regulated. All fish farming sites in the sea are to be regularly assessed. Environmental monitoring in Iceland is following guidelines and methods outlined in NS 9410:2016 and ISO 12878. The Icelandic Environmental agency (Umhverfisstofnun) can also set specific requirements regarding frequency of surveys for different fish farming sites, which can overrule the above-mentioned standards.

The B survey is a trend monitoring tool with the focus on sediment condition (benthic impact) beneath and in the close vicinity of the fish cages (near zone). Sediment is collected using a grab (min 250 cm²). Sediment condition for each sample is assessed using three indicators: sediment chemistry (pH and redox potential), sensory evaluation (gas bubbles, smell, texture, colour and thickness of sludge) and the presence or absence of fauna. The performance of these indicators against predefined thresholds categorizes the farming locations into four different site conditions (see Table 1), which are used to determine the sampling frequency.

Table 1. Frequency of category B-research for the location of the farm based on state of the defined farming area.

Site condition at the time of sampling	Sampling frequency for B-surveys (NS 9410:2016)
1-very good	At next max biomass
2-good	Prior to putting next generation into sea and again at next max biomass.
3-bad	Prior to putting next generation into sea. Based on the site condition prior to putting next generation into sea: <ul style="list-style-type: none">- Condition 1 – next site survey at next max biomass- Condition 2 – next site survey at next 50% max biomass and at max biomass- Condition 3 – next site survey at next 50% max biomass and at max biomass. Some conditions should apply for farming of next generation at the site If any of the samples result in character 4 it is a sign of overload.
4-very bad	Overload

2.1 Field equipment

The following field equipment was used during the site survey:

Grab: Van Veen grab (St 1-3: 0.025 m² ; St 4-25: 0,1 m²)

Sieve 1 mm: Akvaplan-niva

pH meter: Electrode, YSI Professional Plus

Redox-meter: Electrode, YSI Professional Plus

Position determination– Garmin GPS mapping tool.

Digital camera

3 Study site, production and survey design

3.1 Study site and production

Hringsdalur is located in the southern part of Arnarfjörður, approximately 6nm northwest of the town of Bíldudalur. The installed frame is suited for up to 18 net-pens with a circumference of 200 m. The frame is positioned in north- northwesterly direction from land (343°) with depth below the cages ranging from 58 to 88 m.

Hringsdalur has been fallowed since mid April 2020. Two generations of fish have been reared at site and production volume increased with each production cycle. G18 was produced in six cages with a circumference of 160 m. For the upcoming production cycle, the frame has been extended (18 net-pens) and moved approximately 300 m eastwards.

Table 2 shows the production and feed usage for previous generations.

Table 2. Production and feed usage at Hringsdalur, data is based on info given from the fish farmer.

Generation of fish (G)	Production (tonnes)	Feed usage (tonnes)
Generation 2016-2018	3.613	3.914
Generation 2018 - 2020	6.287	7.617

3.2 Present and past site surveys

Table 3 provides an overview of sampling dates and results of current and historic B surveys undertaken at the site following NS 9410:2016.

Table 3. Current and historic B surveys taken at Hringsdalur.

Date of sampling	Report number	Survey type	Overall site status
26.04.2022	APN 64042.B01 (Gustavsson, 2022)	Fallow period	1
19.11.2019	APN-61656.B01 (Gustavsson, 2020)	B survey max biomass	1
16.05.2018	APN-60320.B01 (Gunnarsson, 2018b)	Fallow period	1
01.11.2017	APN-9187.B02 (Gunnarsson, 2018a)	B survey max biomass	1
22.10.2013	AR131125A (Moe, 2013)	B survey new site	1

3.3 Hydrodynamic conditions

Current measurements were undertaken in Jan-Feb 2014 at 60 m, which is the dispersing depth for Hringsdalur site (Moe, 2014). The dominating current at 60 m is in south-easterly direction (120-165 degrees) with a small counter current in opposite direction (Figure 2). Average current speed is 6 cm/s. Highest current speed is measured to be 29 cm/s and 2.54 % of the measurements are zero current.

3.4 Survey design

The placement of the 25 sampling stations is shown in Figure 2 with positions listed in Table 4. Station are distributed within the near zone of the new frame position following criteria outlined in NS 9410:2016. Depth beneath and in the close vicinity of the cage varies between 56– 88 m, with the deepest waters being located in the northern part of the frame. Sampling

stations were placed to represent the varied environmental conditions within the near zone and cover thus both the deeper and shallower areas. The sampling stations had a depth varying from 62 to 87 m. The placement of sampling stations is regarded to be in accordance with the requirements outlined in NS 9410:2016.

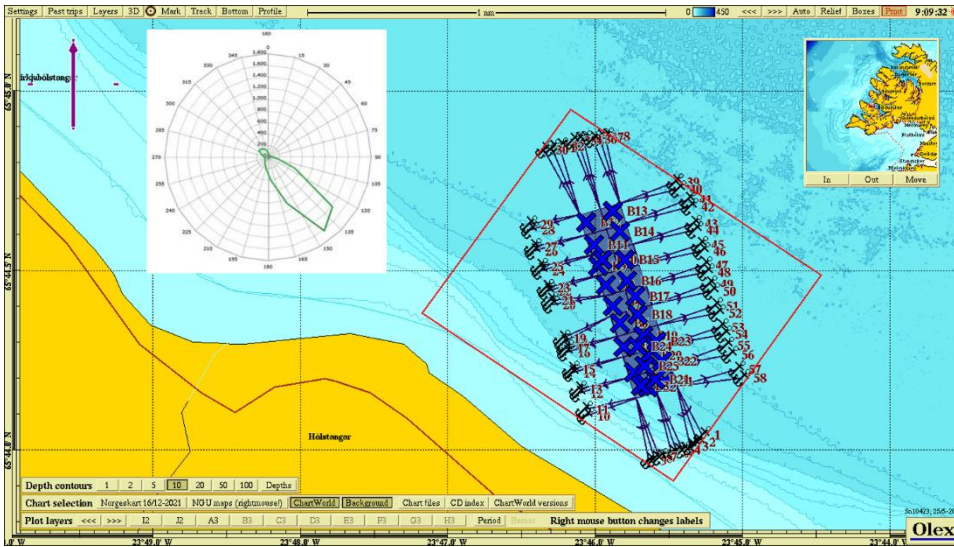


Figure 2. Site specific map of Hringsdalur showing frame, mooring lines and farming area. Sampling stations st. 1 – 25 are marked with crosses. The color of each cross represents the environmental condition at the respective station following the classification as outlined in NS 9410:2016, chapter 7.11. Colour codes: Blue = very good, green = good, yellow = bad, red = very bad. Current rose placed in the top left corner shows main current direction at 60 m (Moe, 2014).

Table 4. Position and depth of the sampling stations in the B-survey.

Station number	North	West	Depth (m)
St 1	65°44,190	023°45,527	69
St 2	65°44,174	023°45,643	63
St 3	65°44,179	023°45,687	62
St 4	65°44,215	023°45,736	66
St 5	65°44,287	023°45,810	70
St 6	65°44,353	023°45,834	75
St 7	65°44,400	023°45,879	77
St 8	65°44,459	023°45,930	80
St 9	65°44,511	023°45,982	82
St 10	65°44,530	023°45,954	83
St 11	65°44,570	023°46,010	84
St 12	65°44,634	023°46,060	86
St 13	65°44,664	023°45,878	87
St 14	65°44,607	023°45,833	86
St 15	65°44,529	023°45,801	85
St 16	65°44,471	023°45,786	83
St 17	65°44,428	023°45,729	81
St 18	65°44,377	023°45,714	79
St 19	65°44,317	023°45,676	76
St 20	65°44,262	023°45,646	72
St 21	65°44,196	023°45,596	67
St 22	65°44,247	023°45,547	73
St 23	65°44,301	023°45,583	76
St 24	65°44,289	023°45,713	72
St 25	65°44,234	023°45,665	69

4 Results

Results for the different parameters are given in Table 5. The completed fieldwork sampling sheet with calculations for each parameter is attached in appendix.

Table 5. Results from the parameter classifications in the near zone of the fish farm.

Parameter	Condition
Group II - parameters (pH/Eh)	1
Group III – parameters, (sensory)	1
Group II + III – parameters (mean value)	1
Site condition	1

Substrate was collected at all 25 sampling stations (100% soft bottom). Sediment samples consisted mainly of clay and silt. Fauna was recorded at all stations with polychaetes and molluscs being most prominent. The substrate was of light grey colour. Signs of out-gassing were not observed. A slight smell of H₂S was recorded at two stations.

Based on the classification of sediment chemistry (pH/Eh) and the sensory assessments all stations of this survey received status 1 – "very good" (Figure 2). The site therefore also receives as a whole the environmental status 1 – "very good".

5 Conclusion

Applying the indicator thresholds and classification outlined in NS 9410:2016 it is shown that Hringsdalur receives site status 1 – "very good" at the time of this B survey. Samples were collected with a Van Veen grab (St 1-3: 0.025 m²; St 4-25: 0,1 m²) at 25 stations distributed around the 18 cages, which are planned to be used for the next production cycle. Sediment was successfully collected at all stations and each station in this survey received status 1 – "very good".

The here presented survey was undertaken after fallowing and prior to the start of the next production cycle. The farm has been expanded and moved to a new position within the defined farming area. Sampling stations in this survey are placed within the near zone of the current farm location and thus are not located where organic load was highest during the last production cycle. A direct comparison with results of previous B surveys is therefore not suitable. This survey did not detect signs of organic enrichment within the footprint of the new farm location.

Following the criteria outlined in NS 9410:2016 the site receives the status 1 - "very good".

6 References

Forskrift om drift av akvakulturanlegg (akvakulturdriftsforskriften) §§ 35 og 36.

Gunnarsson, S., 2018a. Arnarlax. B-undersøkelse, november 2017 Hringsdalur, APN-9187.B02. Akvaplan-niva AS.

Gunnarsson, S., 2018b. Arnarlax hf. B-undersøkelse, mai 2018 Hringsdalur (undersøkelse ved brakklegging), APN-60320.B01. Akvaplan-niva AS.

Gustavsson, A., 2020. Hringsdalur, Arnarlax hf B-bottom survey, november 2019 (Maximum biomass survey), APN-61656.B01. Akvaplan-niva AS.

ISO 5667-19:2004. Guidance on sampling of marine sediments.

ISO 12878:2012. Environmental monitoring of the impacts from marine finfish farms on soft bottom.

Moe, A.A., 2013. Environmental monitoring (MOM B) at finfish farm site Hringsdalur October 2013. AR131125A. Helgeland Havbruksstasjon AS.

Moe, A.A., 2014. Current investigation at finfish farm site Hringsdalur February 2014. Helgeland Havbruksstasjon AS.

Norsk Standard NS 9410:2016. Miljøovervåking av bunnpåvirkning fra marine akvakulturanlegg.

7 Appendix

7.1 Survey data sheet (B.1 & B.2), NS 9410:2016.

Prøveskjema B.1												
Firma:		Arnarlax						Dato:		26/04/2022		
Lokalitet:		Hringsdalur						Lokalitetsnr:				
Prøvetakingsansvarlig:		Arnthor Gustavsson										
Gr Parameter Poeng		Prøvepunkt										
		1	2	3	4	5	6	7	8	9	10	
Bunntype: B (bløt) eller H (hard)		B	B	B	B	B	B	B	B	B	B	
I	Dyr > 1mm	Ja (0) Nei (1)	0	0	0	0	0	0	0	0	0	
II	pH	verdi	7.97	7.99	7.95	7.93	8.00	8.12	7.99	8.07	8.02	7.98
	Eh (mV)	ORP	98	97	111	110	118	116	65	85	25	68
		med ref. verdi	298	297	311	310	318	316	265	285	225	268
	pH/Eh	fra figur	0	0	0	0	0	0	0	0	0	0
	Tilstand, prøve		1	1	1	1	1	1	1	1	1	1
		Buffer-temp	8.0 C			Sjø-temp		4.1 C		Sediment-temp		- C
		pH sjø	8.40		ORP sjø		163 mV		Eh sjø		363 mV	
			Referanse-elektrode								200 mV	
III	Gassbobler	Ja (4) Nei (0)	0	0	0	0	0	0	0	0	0	0
	Farge	Lys/grå (0)	0	0	0	0	0	0	0	0	0	0
		Brun/sort (2)										
	Lukt	Ingen (0)		0	0	0	0	0	0	0	0	0
		Noe (2)	2									
		Sterk (4)										
	Konsistens	Fast (0)	0	0	0	0	0	0	0	0	0	0
		Myk (2)										
		Løs (4)										
	Grabbvolum (v)	v < 1/4 (0)										
		1/4 < v < 3/4 (1)			1							
		v > 3/4 (2)	2	2		2	2	2	2	2	2	2
	Tykkelse på slamlag	t < 2 cm (0)	0	0	0	0	0	0	0	0	0	0
		2 < t < 8 cm (1)										
		t > 8 cm (2)										
		Sum	4.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
		Korrigeret (*0,22)	0.9	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Tilstand prøve	1	1	1	1	1	1	1	1	1	1
	Middelverdi gruppe II og III		0.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tilstand prøve		1	1	1	1	1	1	1	1	1	1
Grabb ID		K-3										
pH/ Eh ID		Ysi Professional plus										

side 1 av 6 sider

Prøveskjema B.1

Firma:	Árnarlas
Lokalitet:	Hringsdalur
Prøvetakingsansvarlig:	Arnthor Gustavsson

Dato:	26/04/2022
Lokalitetsnr:	0

Gr	Parameter	Poeng	Prøvepunkt																		
			11	12	13	14	15	16	17	18	19	20									
	Bunntype: B (bløt) eller H (hard)		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
I	Dyr > 1mm	Ja (0) Nei (1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
II	pH	verdi	8.05	7.88	8.06	8.09	8.09	8.00	8.04	7.98	7.92	8.02									
	Eh (mV)	verdi	16	36	50	52	70	4	20	-40	10	22									
		med ref. verdi	216	236	250	252	270	204	220	160	210	222									
	pH/Eh	fra figur	0	0	0	0	0	0	0	0	0	0									
	Tilstand prøve			1	1	1	1	1	1	1	1	1	1								
		Buffer-temp		8.0 C			Sjø-temp	4.1 C			Sediment-temp	- C									
		pH sjø	8.4	ORP sjø	163 mV			Eh sjø	363 mV			Referanse-elektrode	200 mV								
	III	Gassbobler	Ja (4) Nei (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Farge	Lys/grå (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Brun/sort (2)																		
Lukt		Ingen (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Noe (2)																			
		Sterk (4)																			
Konsistens		Fast (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Myk (2)																			
		Løs (4)																			
Grabb-volum (v)		v < 1/4 (0)																			
	1/4 < v < 3/4 (1)																				
	v > 3/4 (2)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Tykkelse på slamlag	t < 2 cm (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2 < t < 8 cm (1)																				
	t > 8 cm (2)																				
	Sum		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
	Korrigeret ("0,22)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
	Tilstand prøve		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Middelverdi gruppe II og III			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Tilstand prøve			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

Grabb ID	K-3
pH/Eh ID	Ysi Professional plus

side 2 av 6 sider

Prøveskjema B.1

Firma:	Arnarlax
Lokalitet:	Hringsdalur
Prøvetakingsansvarlig:	Arnthor Gustavsson

Dato:	26/04/2022
Lokalitetsnr:	0

Gr	Parameter	Poeng	Prøvepunkt										Indeks	
			21	22	23	24	25	26	27	28	29	30	B%	H%
	Bunntype: B (bløt) eller H (hard)		B	B	B	B	B						100	0
I	Dyr > 1mm	Ja (0) Nei (1)	0	0	0	0	0							
II	pH	verdi	8.04	8.06	8.15	8.03	7.96							
	Eh (mV)	verdi	59	78	87	83	98							
		med ref. verdi	259	278	287	283	298							
	pH/Eh	fra figur	0	0	0	0	0						0.00	
	Tilstand prøve		1	1	1	1	1							
	Tilstand, gruppe II		1	Buffer-temp	8.0 C		Sjø-temp	4.1 C		Sediment-temp	- C			
	pH sjø	8.4	ORP sjø	163 mV		Eh sjø	363 mV		Referanse-elektrode	200 mV				
III	Gassbobler	Ja (4) Nei (0)	0	0	0	0	0							
	Farge	Lys/grå (0)	0	0	0	0	0							
		Brun/sort (2)												
	Lukt	Ingen (0)	0	0	0		0							
		Noe (2)					2							
		Sterk (4)												
	Konsistens	Fast (0)	0	0	0	0	0							
		Myk (2)												
		Løs (4)												
	Grabbvolum (v)	v < 1/4 (0)												
		1/4 < v < 3/4 (1)												
		v > 3/4 (2)	2	2	2	2	2							
	Tykkelse på slamlag	t < 2 cm (0)	0	0	0	0	0							
		2 < t < 8 cm (1)												
		t > 8 cm (2)												
	Sum		2.0	2.0	2.0	4.0	2.0							
	Korrigeret (*0,22)		0.4	0.4	0.4	0.9	0.4						0.47	
	Tilstand prøve		1	1	1	1	1							
	Tilstand gruppe III		1											
	Middelverdi gruppe II og III		0.2	0.2	0.2	0.4	0.2						0.23	
	Tilstand prøve		1	1	1	1	1							
	Tilstand gruppe II og III		1											
	pH/Eh													
	Korr. sum													
	Indeks													
	Middelverdi													
		< 1,1	1											
		1,1 - < 2,1	2											
		2,1 - < 3,1	3											
		≥ 3,1	4											

LOKALITETSTILSTAND: 1

Grabb ID	K-3
pH/Eh ID	Ysi Professional plus

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Prøveskjema B.2

Firma:	Arnarlax					Dato:	26/04/2022				
Lokalitet:	Hringsdalur					Lokalitetsnr:	0				
Prøvetakingsansvarlig:	Arnthor Gustavsson										
Prøvepunkt	1	2	3	4	5	6	7	8	9	10	
Dyp (m)	69	63	62	66	70	75	77	80	82	83	
Antall forsøk	1	1	2	4	1	1	2	1	1	1	
Bobling (i prøve)											
Sedimenttype	Leire	X	X	X	X	X	X	X	X	X	
	Silt	X	X	X	X	X	X	X	X	X	
	Sand										
	Grus										
	Skjellsand										
Fjellbunn											
Steinbunn											
Pigghuder, antall											
Krepsdyr, antall			1						1		
Skjell, antall	10+	10+	10+	6	7	10+	10	10+	7	6	
Børstemark, antall	10+	8	10+	10+	10+	10+	10+	10+	10+	10+	
Andre dyr, totalt antall											
Beggiatoa											
Fôr											
Fekalier											
Kommentar	First 3 stations sampled with K-22 (small grab) but all the rest with K-3										
Grabb	Areal [m²]	see comments				Grabb ID	K-3				
side 4 av 6 sider											


Prøveskjema B.2

Firma:	Arnarlax
Lokalitet:	Hringsdalur
Prøvetakingsansvarlig:	Arnthor Gustavsson

Dato:	26/04/2022
Lokalitetsnr:	0

Prøvepunkt	11	12	13	14	15	16	17	18	19	20
Dyp (m)	84	86	87	86	85	83	81	79	76	72
Antall forsøk	1	1	1	1	1	1	1	1	1	1
Bobling (i prøve)										
Sedimenttype	Leire	X	X	X	X	X	X	X	X	X
	Silt	X	X	X	X	X	X	X	X	X
	Sand									
	Grus									
	Skjellsand									
Fjellbunn										
Steinbunn										
Pigghuder, antall	1	1	1					2		
Krepsdyr, antall										
Skjell, antall	10+	2	6	5	7	2	9	10+	10+	10+
Børstemark, antall	10+	10+	10+	10+	10+	10+	8	10+	10+	10+
Andre dyr, totalt antall										
<i>Beggiatoa</i>										
Fôr										
Fekalier										
Kommentar										
Grabb	Areal [m ²]	see comments		Grabb ID	K-3					
	side 5 av 6 sider									






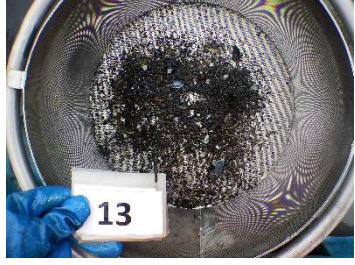

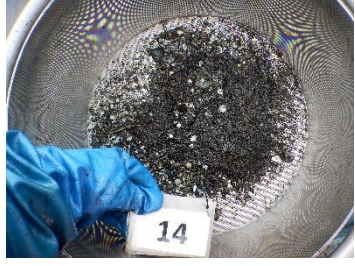


Prøveskjema B.2











Firma:	Arnarlax					Dato:	26/04/2022				
Lokalitet:	Hringsdalur					Lokalitetsnr:	0				
Prøvetakingsansvarlig:	Arnthor Gustavsson										
Prøvepunkt	21	22	23	24	25	26	27	28	29	30	
Dyp (m)	67	73	76	72	69						
Antall forsøk	1	1	1	1	1						
Bobling (i prøve)											
Sedimenttype	Leire	X	X	X	X	X					
	Silt	X	X	X	X	X					
	Sand										
	Grus										
	Skjellsand										
Fjellbunn											
Steinbunn											
Pigghuder, antall											
Krepsdyr, antall	1										
Skjell, antall	10+	10+	10+	10+	8						
Børstemark, antall	10+	10+	10+	10+	10+						
Andre dyr, totalt antall											
Beggiataa											
Fôr											
Fekalier											
Kommentar											
Grabb	Areal [m²]	see comments			Grabb ID	K-3					
Signatur prøvetakingsansvarlig:										side 6 av 6 sider	


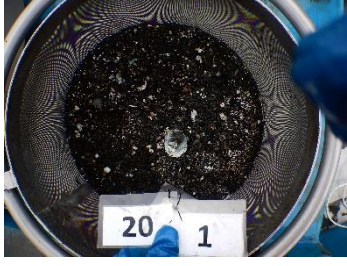





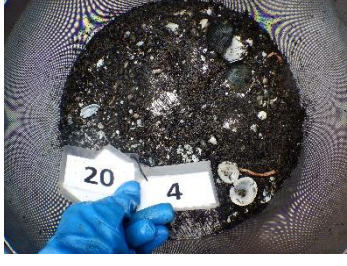


7.2 Pictures of samples at Hringsdalur.

<i>St 1</i>	 A photograph of a dark, irregularly shaped soil sample submerged in water inside an orange container. A white label with the number '1' is visible in the bottom left corner.	 A photograph of the same sample from St 1 after being passed through a sieve. The residue is dark and granular, with a small orange worm-like object visible. A white label with the number '1' is in the bottom center.
<i>St 2</i>	 A photograph of two dark soil samples submerged in water in an orange container. A white label with the number '2' is in the bottom left corner.	 A photograph of the sample from St 2 after sieving. The residue is dark with some larger clumps and a small orange worm-like object. A white label with the number '2' is in the bottom center.
<i>St 3</i>	 A photograph of a dark soil sample submerged in water in an orange container. A white label with the number '3' is in the bottom left corner.	 A photograph of the sample from St 3 after sieving. The residue is dark and granular. A white label with the number '3' is in the bottom center.
<i>St 4</i>	 A photograph of several dark soil samples stacked in an orange container. A white label with the number '4' is in the bottom left corner.	 A photograph of the sample from St 4 after sieving. The residue is dark with some clumps and a small orange worm-like object. A white label with the number '4' is in the bottom center.
<i>St 5</i>	 A photograph of two dark soil samples stacked in an orange container. A white label with the number '5' is in the bottom left corner.	 A photograph of the sample from St 5 after sieving. The residue is dark and granular. A white label with the number '5' is in the bottom center.

<p><i>St 6</i></p>		
<p><i>St 7</i></p>		
<p><i>St 8</i></p>		
<p><i>St 9</i></p>		
<p><i>St 10</i></p>		

<p><i>St 11</i></p>		
<p><i>St 12</i></p>		
<p><i>St 13</i></p>		
<p><i>St 14</i></p>		
<p><i>St 15</i></p>		

<p><i>St 16</i></p>		
<p><i>St 17</i></p>		
<p><i>St 18</i></p>		
<p><i>St 19</i></p>		
<p><i>St 20</i></p>		

<p><i>St 21</i></p>		
<p><i>St 22</i></p>		
<p><i>St 23</i></p>		
<p><i>St 24</i></p>		
<p><i>St 25</i></p>		

7.3 Bottom topography and 3D view

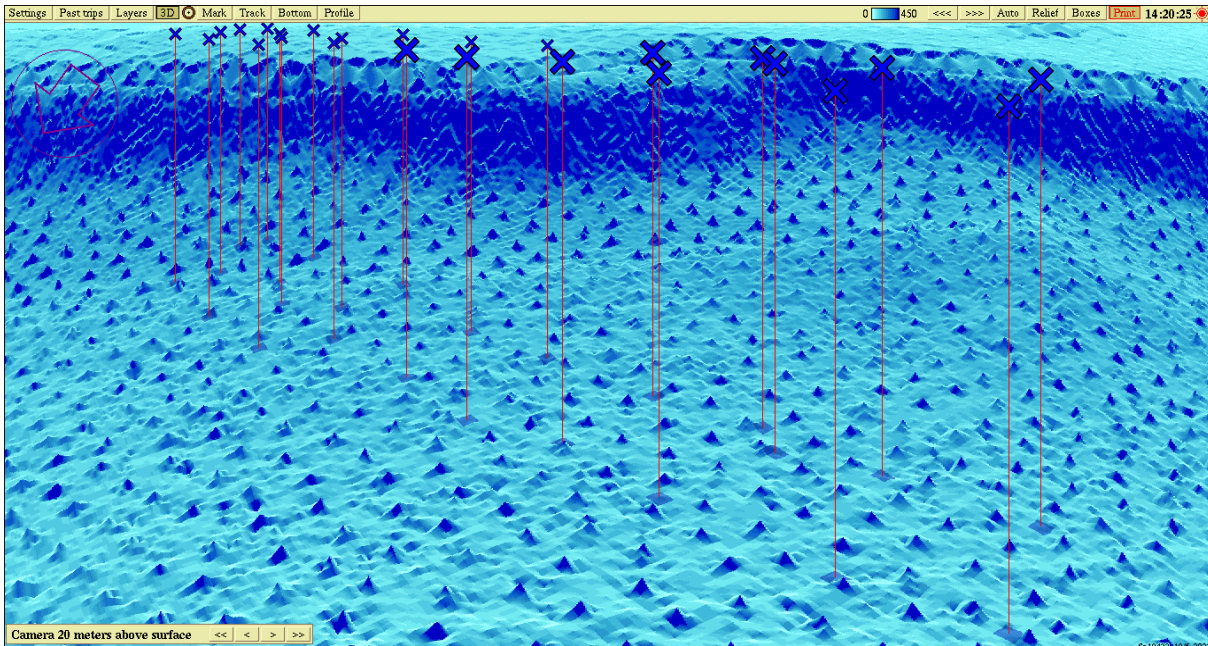


Figure 3. Bottom topography in 3D at Hringsdalur with each sampling station according to info in Figure 1 and Table 4.