



Matís ohf
Rannsóknarstofa
Vinlandsleið 12
113 Reykjavík
Sími: (354)-422 5000



RANNSÓKNANIÐURSTÖÐUR
Útgefnar af faggildri rannsóknastofu
Report issued by Accredited laboratory

Síða 1 af 1

Reykjavíkurborg / Matvælaeftirlit
5302697609
Borgartún 12-14
Reykjavík - 5

Sýni Nr. R25025130001
Vatn

Sýnatökudagsetning: 30/09/2025
Móttekið: 30/09/2025
Rannsakað: 30/09/2025

Tegund sýnis : Neysluvatn / Borholuvatn
Sýnatökustaður : Dælustöð v/Gagnveg, Grafarvogi, Reykjavík
Auðkenni : Gagnvegur/40-23-Hú
Tílefni sýnatöku : Reglubundið eftirlit
Aðrar upplýsingar : Hitastig við móttöku: 6°C
Ástand vatnsbóls: Góður
Frágangur vatnsbóls: Lokað

Skýringar : Mælingar framkvæmdar af eftirliti við sýnatöku:
Sýrustig (pH): 7,37
Leiðni (µS/cm): 86,7
Hitastig við sýnatöku: 5,5°C
Litur/lykt/bragð: eðlilegt

Örverurannsóknir

E.coli 100 ml síun (ÖVA3)
Enterokokkar 100 ml síun (ÖVA12)
Gerlafjöldi við 22°C í 1 ml (ÖVA5)
Kólígerlar í 100 ml síun (ÖVA3)

Mæligildi

<1
<1
<1
<1

Heimild

ISO 9308-1:1990 & ISO 9308-1:2000, Cor 1:2007
ISO 7899-2, 1st ed. 2000
SM, 23. ed. 2017, 9215B & ISO 6222:1999 mod.
ISO 9308-1:1990 & ISO 9308-1:2000

Eðlis- og Efnarannsóknir

**Sýrustig (pH) (EVA1)
**Grugg
**Leiðni (EVA3)

Mæligildi

8,90
0,28 NTU
83 µS/cm

Heimild

ISO 10523:2012
IST EN ISO 7027:1999
ISO 7888:2012

Mat sýnis

Stenst gæðakröfur skv. reglugerð 536/2001

Reykjavík,

3. október, 2025

Þessar rannsóknaniðurstöður eru
samþykktar með rafrænni undirskrift:

Páll Steinþórsson
pall.steinthorsson@matís.is

** Ekki faggildar niðurstöður

Niðurstöður má eingöngu nota í heild sinni, nema rannsóknastofa gefi skriflegt leyfi til annars.

Niðurstöður gilda aðeins um það/pau sýni sem var/voru rannsakað/ rannsökuð. Sýni voru rannsökuð í því ástandi sem þau voru afhent. Rannsóknarstofan er faggilt af SWEDAC (Swedish Board for Accreditation and Conformity Assessment) og uppfyllir kröfur ISO/IEC 17025 staðalsins. Mælióvissa örverumælinga byggir á um það bil 95% öryggismörkum (K=2) og er hægt að nálgast upplýsingar um hana með því að hafa samband við rannsóknastofuna.

Rannsóknarstofan uppfyllir kröfur NELAC staðals New York State Department of Health (NYSDOH), NY auðkenni: 11290.

Ef frekari upplýsinga er óskað hafið samband við undirritaðan eða Hrólfr Sigurðsson verkefnisstjóra.

Umhverfis- og Samgöngusvið Reykjavíkurborgar
Matvælaeftirlit
Borgartúni 12-14
105 Reykjavík



20.10.2025

Hérna eru niðurstöður efnagreininga á neysluvatnssýni skv. heildarúttekt reglugerðar nr.536/2001
Sýnið var sent til ALS Scandinavia AB í Svíþjóð til mælinga.
Sýnið var tekið 30.09.2025 á eftirfarandi stað og merkt:
R25-2513-1/Gagnvegur/40-23-Hú

Niðurstöður:
(sjá einnig frá Svíþjóð, RAPPORT ST2543403)

R25-2513-1

Chloroform	µg/L	<0.10
Bromoform	µg/L	<0.20
Dibromochloromethane	µg/L	<0.10
Bromodichloromethane	µg/L	<0.10
Sum of 4 Trihalomethanes (M1)	µg/L	<0.250
Aluminum	µg/L	19,3
Arsenic	µg/L	0,0567
Barium	µg/L	0,168
Cadmium	µg/L	<0.002
Calcium	mg/L	5,37
Chromium	µg/L	0,89
Cobalt	µg/L	<0.005
Copper	µg/L	2,4
Iron	mg/L	0,00127
Lead	µg/L	4,41
Magnesium	mg/L	0,901
Manganese	µg/L	0,0409
Mercury	µg/L	<0.002
Molybdenum	µg/L	0,0836
Nickel	µg/L	2,89
Phosphorus	µg/L	20,5
Potassium	mg/L	0,42
Silicon	mg/L	6,94
Sodium	mg/L	9,92
Strontium	µg/L	3,32
Vanadium	µg/L	17,8
Zinc	µg/L	19,7
Antimony	µg/L	0,0188
Lithium	µg/L	0,163
Selenium	µg/L	<0.3
Boron	µg/L	<10
Sulfur	mg/L	0,735
Benzene	µg/L	<0.2
Toluene	µg/L	<0.2
Ethylbenzene	µg/L	<0.2
Sum of Xylenes	µg/L	<0.2
Naphthalene	µg/L	<0.0070
Acenaphthylene	µg/L	<0.0010
Acenaphthene	µg/L	<0.0010
Fluorene	µg/L	<0.0010
Phenanthrene	µg/L	<0.0010
Anthracene	µg/L	<0.0010
Fluoranthene	µg/L	<0.0010
Pyrene	µg/L	<0.0010
Benz(a)anthracene	µg/L	<0.0010
Chrysene	µg/L	<0.0010

R25-2513-1

Benzo(b)fluoranthene	µg/L	<0.0010
Benzo(k)fluoranthene	µg/L	<0.0010
Benzo(a)pyrene	µg/L	<0.0010
Indeno(1.2.3.cd)pyrene	µg/L	<0.00030
Benzo(g,h,i)perylene	µg/L	<0.00030
Dibenz(a,h)anthracene	µg/L	<0.00060
Sum of carcinogenic PAH (M1)	µg/L	<0.00295
Sum of PAH L (M1)	µg/L	<0.00450
Sum of PAH M (M1)	µg/L	<0.00250
Sum of PAH H (M1)	µg/L	<0.00310
Sum of 16 PAH (M1)	µg/L	<0.0101
Sum of other PAH (M1)	µg/L	<0.00715
Chloride	mg/L	9,5
Fluoride	mg/L	<0.200
Ammonia and ammonium ions as NH ₄	mg/L	<0.050
Nitrates	mg/L	<0.27
Nitrites	mg/L	<0.0039
Sulphate as SO ₄ 2-	mg/L	<5.00
Total Cyanide	mg/L	<0.0010
Dichloromethane	µg/L	<0.1
1.1-Dichloroethane	µg/L	<0.1
1.2-Dichloroethane	µg/L	<0.1
trans-1.2-Dichloroethene	µg/L	<0.1
cis-1.2-Dichloroethene	µg/L	<0.1
1.2-Dichloropropane	µg/L	<0.1
Chloroform	µg/L	<0.1
Tetrachloromethane	µg/L	<0.1
1.1.1-Trichloroethane	µg/L	<0.1
1.1.2-Trichloroethane	µg/L	<0.1
Trichloroethene	µg/L	<0.1
Tetrachloroethene	µg/L	<0.1
Vinyl chloride	µg/L	<0.1
1.1-Dichloroethene	µg/L	<0.1
Colour (True)	mgPt/l	<5.0
Total Organic Carbon	mg/L	<0.50

Hvað varðar áræðanleika, mælióvissu, mæliaðferðir og faggildingarstöðu einstakra mælinga í þessari skýrslu er vísað í meðfylgjandi frumgögn frá þeim rannsóknastofum sem mælingarnar gerðu.

Stenst gæðakröfur skv. reglugerð nr. 536/2001

fh. rannsóknastofu Matís ohf

Hrólfur Sigurðsson

Hrólfur Sigurðsson

Gæðastjóri



CERTIFICATE OF ANALYSIS

Work Order	: ST2543403	Page	: 1 of 6
Client	: Matís ohf	Project	: ----
Contact	: Hrólfur Sigurdsson	Purchase Number	: ----
Address	: Vinlandsleid 12	Sampler	: ----
	: -113 Reykjavik	Site	: ----
	: Iceland	Date Samples Received	: 2025-10-03 14:50
E-mail	: hrolfur@matís.is	Date Analysis Commenced	: 2025-10-07
Telephone	: 3544225000	Issue Date	: 2025-10-20 13:56
C-O-C number	: ----	No. of samples received	: 1
Quote number	: HL2020SE-MAT-OHF0001 (OF191270)	No. of samples analysed	: 1

General Comments

This certificate represents the original certificate and may not be modified or reproduced other than in full, except with the prior written approval of the issuing lab. The results apply only to the material that has been identified, received, and tested. The laboratory has no responsibility for information in this certificate that has been provided by the customer, or results that may be affected by such information. Regarding the laboratory's liability in relation to assignment, please refer to our website <http://www.alsglobal.se>

Workorder Comments

Should a sample contain sediment it is decanted prior to volatile compounds determination.

Signatories	Position
Niina Veuro	Laboratory Manager

Niina Veuro



Laboratory	: ALS Scandinavia AB Danderyd	Webpage	: www.alsglobal.se
Address	: Rinkebyvägen 19C	E-mail	: info.ta@alsglobal.com
	: 182 36 Danderyd	Telephone	: +46 8 5277 5200
	: Sweden		



Analytical Results

Client sample ID: R25-2513-1/Gagnvegur/40-23-Hù
Laboratory sample ID: ST2543403-001
Client sampling date / time: 2025-10-03
Sub-Matrix: DRINKING WATER

Parameter	Result	MU	Unit	LOR	Method	Issuer
Halogenated Volatile Organic Compounds						
OV-10						
Chloroform	<0.10	----	µg/L	0.10	W-VOCGMS01	PR
Bromoform	<0.20	----	µg/L	0.20	W-VOCGMS01	PR
Dibromochloromethane	<0.10	----	µg/L	0.10	W-VOCGMS01	PR
Bromodichloromethane	<0.10	----	µg/L	0.10	W-VOCGMS01	PR
Sum of 4 Trihalomethanes (M1)	<0.250	----	µg/L	0.250	W-VOCGMS01	PR
Sample Pre-Preparation						
_V-2-S						
Stabilisation	Yes *	----	-	-	W-PPV-S	LE
Total Metals/Major Cations						
_V-2						
Aluminum	19.3	± 2.9	µg/L	0.2	W-SFMS-5A	LE
Arsenic	0.0567	± 0.0134	µg/L	0.05	W-SFMS-5A	LE
Barium	0.168	± 0.025	µg/L	0.01	W-SFMS-5A	LE
Cadmium	<0.002	----	µg/L	0.002	W-SFMS-5A	LE
Calcium	5.37	± 0.67	mg/L	0.1	W-AES-1A	LE
Chromium	0.890	± 0.134	µg/L	0.01	W-SFMS-5A	LE
Cobalt	<0.005	----	µg/L	0.005	W-SFMS-5A	LE
Copper	2.40	± 0.33	µg/L	0.1	W-SFMS-5A	LE
Iron	0.00127	± 0.00048	mg/L	0.0004	W-SFMS-5A	LE
Lead	4.41	± 0.64	µg/L	0.01	W-SFMS-5A	LE
Magnesium	0.901	± 0.106	mg/L	0.09	W-AES-1A	LE
Manganese	0.0409	± 0.0154	µg/L	0.03	W-SFMS-5A	LE
Mercury	<0.002	----	µg/L	0.002	W-AFS-17V2	LE
Molybdenum	0.0836	± 0.0131	µg/L	0.05	W-SFMS-5A	LE
Nickel	2.89	± 0.43	µg/L	0.05	W-SFMS-5A	LE
Phosphorus	20.5	± 3.3	µg/L	1	W-SFMS-5A	LE
Potassium	0.420	± 0.052	mg/L	0.4	W-AES-1A	LE
Silicon	6.94	± 0.81	mg/L	0.03	W-AES-1A	LE
Sodium	9.92	± 1.19	mg/L	0.1	W-AES-1A	LE
Strontium	3.32	± 0.48	µg/L	2	W-AES-1A	LE
Vanadium	17.8	± 2.6	µg/L	0.005	W-SFMS-5A	LE
Zinc	19.7	± 3.3	µg/L	0.2	W-SFMS-5A	LE
_V-2-ADD						
Boron	<10	----	µg/L	10	W-AES-1A	LE
_V-2-Bas-ADD						
Antimony	0.0188	± 0.0066	µg/L	0.01	W-SFMS-5A	LE
Lithium	0.163 *	----	µg/L	0.050	W-SFMS-5A	LE
Selenium	<0.3	----	µg/L	0.3	W-SFMS-5A	LE
_V-2-S						
Sulfur	0.735	± 0.086	mg/L	0.2	W-AES-1A	LE
BTEX						
OV-5A						
Benzene	<0.2	----	µg/L	0.2	HS-OV-21	ST



Parameter	Result	MU	Unit	LOR	Method	Issuer
BTEX - Continued						
OV-5A - Continued						
Toluene	<0.2	----	µg/L	0.2	HS-OV-21	ST
Ethylbenzene	<0.2	----	µg/L	0.2	HS-OV-21	ST
Sum of Xylenes	<0.2	----	µg/L	0.2	HS-OV-21	ST
Polycyclic Aromatics Hydrocarbons (PAHs)						
GRV-PAH						
Naphthalene	<0.0070	----	µg/L	0.0070	W-PAHGMS04	PR
Acenaphthylene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Acenaphthene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Fluorene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Phenanthrene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Anthracene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Fluoranthene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Pyrene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Benz(a)anthracene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Chrysene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Benzo(b)fluoranthene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Benzo(k)fluoranthene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Benzo(a)pyrene	<0.0010	----	µg/L	0.0010	W-PAHGMS04	PR
Indeno(1.2.3.cd)pyrene	<0.00030	----	µg/L	0.00030	W-PAHGMS04	PR
Benzo(g,h,i)perylene	<0.00030	----	µg/L	0.00030	W-PAHGMS04	PR
Dibenz(a,h)anthracene	<0.00060	----	µg/L	0.00060	W-PAHGMS04	PR
Sum of carcinogenic PAH (M1)	<0.00295	----	µg/L	0.00295	W-PAHGMS04	PR
Sum of PAH L (M1)	<0.00450	----	µg/L	0.00450	W-PAHGMS04	PR
Sum of PAH M (M1)	<0.00250	----	µg/L	0.00250	W-PAHGMS04	PR
Sum of PAH H (M1)	<0.00310	----	µg/L	0.00310	W-PAHGMS04	PR
Sum of 16 PAH (M1)	<0.0101	----	µg/L	0.101	W-PAHGMS04	PR
Sum of other PAH (M1)	<0.00715	----	µg/L	0.00715	W-PAHGMS04	PR
Nonmetallic Inorganic Parameters						
Ammonium i vatten						
Ammonia and ammonium ions as NH ₄	<0.050	----	mg/L	0.050	W-NH4-SPC	PR
Ammonia and ammonium ions as N	<0.040	----	mg/L	0.040	W-NH4-SPC	PR
Cyanid (total) i vatten						
Total Cyanide	<0.0010	----	mg/L	0.001	Cyanid_7937,10	HU
Fluorid i vatten						
Fluoride	<0.200	----	mg/L	0.200	W-F-IC	PR
Klorid i vatten						
Chloride	9.50	± 1.42	mg/L	4.00	W-CL-IC	PR
Nitrat i vatten (SPC)						
Nitrates	<0.27	----	mg/L	0.27	W-NO3-SPC	PR
Nitrate as N	<0.060	----	mg/L	0.060	W-NO3-SPC	PR
Nitrites	<0.0039	----	mg/L	0.0039	W-NO2-SPC	PR
Nitrit i vatten (SPC)						
Nitrite as N	<0.0020	----	mg/L	0.0020	W-NO2-SPC	PR
Sulfat i vatten (IC)						
Sulphate as SO ₄ 2-	<5.00	----	mg/L	5.00	W-SO4-IC	PR
Halogenated Volatile Organic Compounds						
OV-6B						
Dichloromethane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
1.1-Dichloroethane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
1.2-Dichloroethane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
trans-1.2-Dichloroethene	<0.1	----	µg/L	0.1	HS-OV-6b	ST
cis-1.2-Dichloroethene	<0.1	----	µg/L	0.1	HS-OV-6b	ST



Parameter	Result	MU	Unit	LOR	Method	Issuer
Halogenated Volatile Organic Compounds - Continued						
OV-6B - Continued						
1.2-Dichloropropane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
Chloroform	<0.1	----	µg/L	0.1	HS-OV-6b	ST
Tetrachloromethane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
1.1.1-Trichloroethane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
1.1.2-Trichloroethane	<0.1	----	µg/L	0.1	HS-OV-6b	ST
Trichloroethene	<0.1	----	µg/L	0.1	HS-OV-6b	ST
Tetrachloroethene	<0.1	----	µg/L	0.1	HS-OV-6b	ST
Vinyl chloride	<0.1	----	µg/L	0.1	HS-OV-6b	ST
1.1-Dichloroethene	<0.1	----	µg/L	0.1	HS-OV-6b	ST
Physical Parameters						
Färg						
Colour (True)	<5.0	----	mgPt/l	5.0	W-COL-SPC	PR
Other						
TOC						
Total Organic Carbon	<0.50	----	mg/L	0.50	W-TOC-IR	PR

The end of result part of the certificate of analysis



Brief Method Summaries

Analytical Methods	Method Reference
W-AES-1A	Determination of metals in fresh water, pool and drinking water by ICP-AES according to SS-EN ISO 11885:2009 and US EPA Method 200.7:1994. Samples are acidified with 1 ml high purity nitric acid per 100 ml prior to analysis. No digestion.
W-AFS-17V2	Determination of mercury (Hg) in natural water by AFS according to SS-EN ISO 17852:2008. Samples are acidified with 1 ml high purity nitric acid per 100 ml prior to analysis. No digestion.
W-PPV-S*	Stabilisation with H2O2 prior to analysis (SE-SOP-0259).
W-SFMS-5A	Determination of metals in freshwater, pool and drinking water by ICP-SFMS according to SS-EN ISO 17294-2:2023 and US EPA Method 200.8:1994. Samples are acidified with 1 ml high purity nitric acid per 100 ml prior to analysis. No digestion.
Cyanid_7937,10	Determination of cyanid total according to DS/EN ISO 14403-2:2012.
W-CL-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-COL-SPC	CZ_SOP_D06_02_079 (CSN EN ISO 7887) Determination of colour by spectrophotometry.
W-F-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-NH4-SPC	CZ_SOP_D06_02_019 (CSN ISO 15923-1) Determination of sum of ammonium and ammonium ions, nitrite and the sum of nitrite and nitrate ions by discrete spectrophotometry and calculation of nitrite, nitrate, ammonia, inorganic, organic, total nitrogen, free ammonia and dissociated ammonium ions from measured values including the calculation of total mineralization
W-NO2-SPC	CZ_SOP_D06_02_019 (ČSN ISO 15923-1, SM 4500-NO2-, SM 4500-NO3-) Determination of nitrite sum and sum of nitrite and nitrate nitrogen by discrete spectrophotometry and calculation of nitrites and nitrates from measured values
W-NO3-SPC	CZ_SOP_D06_02_019 (CSN ISO 15923-1, SM 4500-NO2-, SM 4500-NO3-) Determination of nitrite sum and sum of nitrite and nitrate nitrogen by discrete spectrophotometry and calculation of nitrites and nitrates from measured values
W-PAHGMS04	CZ_SOP_D06_03_161 (US EPA Method 8270D; US EPA Method 8082A; ČSN EN ISO 6468; US EPA Method 8000D) Determination of semi volatile organic compounds by gas chromatography method with MS or MS/MS detection and calculation of semi volatile organic compounds sums from measured values
W-SO4-IC	CZ_SOP_D06_02_068 (CSN EN ISO 10304-1) Determination of dissolved fluoride, chloride, nitrite, bromide, nitrate and sulphate by ion liquid chromatography and calculation of nitrite nitrogen and nitrate nitrogen and sulphate sulphur from measured values including the calculation of total mineralization.
W-TOC-IR	CZ_SOP_D06_02_056 (CSN EN ISO 20236, SM 5310, ČSN EN 1484) Determination of total organic carbon (TOC), dissolved organic carbon (DOC), total inorganic carbon (TIC) and total carbon (TC) by IR detection.
W-VOCGMS01	CZ_SOP_D06_03_155 (US EPA Method 624, US EPA Method 5021A, US EPA Method 8260, US EPA 8015, CSN EN ISO 10301, MADEP 2004, rev. 1.1, CSN ISO 11423-1, CSN EN ISO 15680) Determination of volatile organic compounds by gas chromatography method with FID and MS detection and calculation of volatile organic compounds sums from measured values.
HS-OV-21	Measurement performed with headspace GC-MS according to EPA method 5021a rev. 2 update V.
HS-OV-6b	Determination of Chlorinated aliphatics (Low LOQ) in water with HS-GC-MS according to SS-EN ISO 10301:1997

Key: **LOR** = Limit of reporting represents the standard LOR for the respective parameters in each method. Note that limits of reporting may be affected if, e.g. additional dilution was required because of matrix effects, or the sample quantity was limited.

MU = Measurement Uncertainty

* = Symbol succeeding any result indicates laboratory or subcontractor non-accredited test.

Measurement Uncertainty:

The uncertainty is given as extended uncertainty (according to the definition in "Guide to the Expression of Measurement", JCGM 100:2008 Corrected version 2010) calculated with a coverage factor of 2, which give level of approximately 95%. Measurement of uncertainty is reported only for detected substances with levels above the reporting limits.

The uncertainty from subcontractors is often given as extended uncertainty calculated with a coverage factor of 2. Contact the laboratory for further information.



Issuing lab

	Issuer
HU	The analysis is provided by ALS Denmark A/S, Bakkegårdsvej 406A Humlebæk Denmark 3050 Accredited by: DANAK Accreditation Number: 361
LE	The analysis is provided by ALS Scandinavia AB Luleå, Aurorum 10 Luleå Sweden 977 75 Accredited by: SWEDAC Accreditation Number: 2030, ISO/IEC 17025
PR	The analysis is provided by ALS Czech Republic, s.r.o., Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00 Accredited by: CAI Accreditation Number: CAI 1163, CSN EN ISO/IEC 17025:2018
ST	The analysis is provided by ALS Scandinavia AB Danderyd, Rinkebyvägen 19C Danderyd Sweden 182 36 Accredited by: SWEDAC Accreditation Number: 2030, ISO/IEC 17025