



CERTIFICATE OF ANALYSIS

Work Order	: ST2522453	Page	: 1 of 11
Client	: Matís ohf	Project	: ----
Contact	: Hrólfrur Sigurdsson	Purchase Number	: ----
Address	: Food Research, inn. and safety	Sampler	: ----
	Vinlandsleid 12	Site	: ----
	-113 Reykjavik	Date Samples Received	: 2025-05-23 10:30
	Iceland		
E-mail	: hrolfur@matís.is	Date Analysis Commenced	: 2025-05-26
Telephone	: 3544225000	Issue Date	: 2025-06-10 17:25
C-O-C number	: ----	No. of samples received	: 3
Quote number	: HL2020SE-MAT-OHF0001 (OF191270)	No. of samples analysed	: 3

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

Laboratory sample ID

Client sampling date / time

Sub-Matrix

R25-1110-1/1-Vatsendakriki Vk-1

ST2522453-001

Not specified

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	18.4	± 2.7	µg/L	0.2	W-SFMS-5A	LE
Arsenic	<0.05	----	µg/L	0.05	W-SFMS-5A	LE
Barium	0.0725	± 0.0115	µg/L	0.01	W-SFMS-5A	LE
Cadmium	<0.002	----	µg/L	0.002	W-SFMS-5A	LE
Calcium	5.70	± 0.71	mg/L	0.1	W-AES-1A	LE
Chromium	0.909	± 0.137	µg/L	0.01	W-SFMS-5A	LE
Cobalt	<0.005	----	µg/L	0.005	W-SFMS-5A	LE
Copper	<0.1	----	µg/L	0.1	W-SFMS-5A	LE
Iron	<0.0004	----	mg/L	0.0004	W-SFMS-5A	LE
Lead	0.0105	± 0.0024	µg/L	0.01	W-SFMS-5A	LE
Magnesium	0.899	± 0.106	mg/L	0.09	W-AES-1A	LE
Manganese	<0.03	----	µg/L	0.03	W-SFMS-5A	LE
Mercury	<0.002	----	µg/L	0.002	W-AFS-17V2	LE
Molybdenum	0.108	± 0.017	µg/L	0.05	W-SFMS-5A	LE
Nickel	<0.05	----	µg/L	0.05	W-SFMS-5A	LE
Phosphorus	19.3	± 3.1	µg/L	1	W-SFMS-5A	LE
Potassium	0.440	± 0.054	mg/L	0.4	W-AES-1A	LE
Silicon	7.02	± 0.82	mg/L	0.03	W-AES-1A	LE
Sodium	10.1	± 1.2	mg/L	0.1	W-AES-1A	LE
Strontium	3.13	± 0.46	µg/L	2	W-AES-1A	LE
Vanadium	17.2	± 2.5	µg/L	0.005	W-SFMS-5A	LE
Zinc	0.580	± 0.140	µg/L	0.2	W-SFMS-5A	LE
V-2-ADD						
Antimony	<0.01	----	µg/L	0.01	W-SFMS-5A	LE
Boron	<10	----	µg/L	10	W-AES-1A	LE
Selenium	<0.3	----	µg/L	0.3	W-SFMS-5A	LE
V-2-Bas-ADD						
Lithium	0.157 *	----	µg/L	0.050	W-SFMS-5A	LE
V-2-S						
Sulfur	0.738	± 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)						
OV-1 läg LOQ						
Naphthalene	0.002	0.00050	µg/L	0.001	W-GCMS-6/GBA	GX
Acenaphthylene	<0.001	----	µg/L	0.001	W-GCMS-6/GBA	GX
Acenaphthene	<0.001	----	µg/L	0.001	W-GCMS-6/GBA	GX
Fluorene	0.00046	0.000069	µg/L	0.00017	W-GCMS-6/GBA	GX
Phenanthrene	0.001	0.00020	µg/L	0.001	W-GCMS-6/GBA	GX
Anthracene	0.00033	0.000066	µg/L	0.00017	W-GCMS-6/GBA	GX
Fluoranthene	0.00068	0.00010	µg/L	0.00017	W-GCMS-6/GBA	GX
Pyrene	0.00070	0.00014	µg/L	0.00017	W-GCMS-6/GBA	GX
Benz(a)anthracene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Chrysene	<0.00030	----	µg/L	0.0003	W-GCMS-6/GBA	GX
Benzo(b)fluoranthene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(k)fluoranthene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(a)pyrene	<0.00016	----	µg/L	0.00016	W-GCMS-6/GBA	GX
Dibenzo(a,h)anthracene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(g,h,i)perylene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Indeno(1.2.3.cd)pyrene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Sum of 16 PAH	0.00517 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of carcinogenic PAH	<0.000655 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of other PAH	0.00517 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH L	0.002 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH M	0.00317 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH H	<0.00074 *	----	µg/L	-	W-GCMS-6/GBA	GX
Nonmetallic Inorganic Parameters						
Ammonium i vatten						
Ammonia and ammonium ions as NH ₄	<0.050	----	mg/L	0.050	W-NH ₄ -SPC	PR
Ammonia and ammonium ions as N	<0.040	----	mg/L	0.040	W-NH ₄ -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	9.31	± 1.40	mg/L	4.00	W-CL-IC	PR
Nitrat i vatten (0,01 mg)						
Nitrate as N	0.040	0.01	mg/L	0.002	W-SPC-NO ₃ /HUM	HU
Nitrate	0.18	0.04	mg/L	0.01	W-SPC-NO ₃ /HUM	HU
Nitrit i vatten (SPC)						
Nitrites	<0.0050	----	mg/L	0.0050	W-NO ₂ -SPC	PR
Nitrite as N	<0.0020	----	mg/L	0.0020	W-NO ₂ -SPC	PR
Sulfat i vatten (IC)						
Sulphate as SO ₄ 2-	<5.00	----	mg/L	5.00	W-SO ₄ -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
TOC i vatten						
Total Organic Carbon	1.90	± 0.54	mg/L	0.50	W-TOC	ST



Client sample ID

R25-1110-2/3-Jadarsvaedi V5

Laboratory sample ID

ST2522453-002

Client sampling date / time

Not specified

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	16.8	± 2.5	µg/L	0.2	W-SFMS-5A	LE
Arsenic	<0.05	----	µg/L	0.05	W-SFMS-5A	LE
Barium	0.0713	± 0.0113	µg/L	0.01	W-SFMS-5A	LE
Cadmium	<0.002	----	µg/L	0.002	W-SFMS-5A	LE
Calcium	5.38	± 0.67	mg/L	0.1	W-AES-1A	LE
Chromium	0.968	± 0.146	µg/L	0.01	W-SFMS-5A	LE
Cobalt	<0.005	----	µg/L	0.005	W-SFMS-5A	LE
Copper	150	± 21	µg/L	0.1	W-SFMS-5A	LE
Iron	0.000811	± 0.000457	mg/L	0.0004	W-SFMS-5A	LE
Lead	0.0136	± 0.0027	µg/L	0.01	W-SFMS-5A	LE
Magnesium	0.942	± 0.111	mg/L	0.09	W-AES-1A	LE
Manganese	<0.03	----	µg/L	0.03	W-SFMS-5A	LE
Mercury	<0.002	----	µg/L	0.002	W-AFS-17V2	LE
Molybdenum	0.0827	± 0.0130	µg/L	0.05	W-SFMS-5A	LE
Nickel	0.0512	± 0.0192	µg/L	0.05	W-SFMS-5A	LE
Phosphorus	15.0	± 2.4	µg/L	1	W-SFMS-5A	LE
Potassium	<0.4	----	mg/L	0.4	W-AES-1A	LE
Silicon	6.75	± 0.79	mg/L	0.03	W-AES-1A	LE
Sodium	12.2	± 1.5	mg/L	0.1	W-AES-1A	LE
Strontium	3.12	± 0.46	µg/L	2	W-AES-1A	LE
Vanadium	13.4	± 2.0	µg/L	0.005	W-SFMS-5A	LE
Zinc	0.566	± 0.139	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	<0.01	----	µg/L	0.01	W-SFMS-5A	LE
Lithium	0.119 *	----	µg/L	0.050	W-SFMS-5A	LE
Selenium	<0.3	----	µg/L	0.3	W-SFMS-5A	LE
V-2-S						
Sulfur	0.720	± 0.084	mg/L	0.2	W-AES-1A	LE
BTEX						
OV-5A						
Benzene	<0.2	----	µg/L	0.2	HS-OV-21	ST
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



Parameter	Result	MU	Unit	LOR	Method	Issuer
Polycyclic Aromatics Hydrocarbons (PAHs)						
OV-1 låg LOQ						
Naphthalene	0.001	0.00025	µg/L	0.001	W-GCMS-6/GBA	GX
Acenaphthylene	<0.001	----	µg/L	0.001	W-GCMS-6/GBA	GX
Acenaphthene	<0.001	----	µg/L	0.001	W-GCMS-6/GBA	GX
Fluorene	0.00025	0.000038	µg/L	0.00017	W-GCMS-6/GBA	GX
Phenanthrene	0.002	0.00040	µg/L	0.001	W-GCMS-6/GBA	GX
Anthracene	0.00037	0.000074	µg/L	0.00017	W-GCMS-6/GBA	GX
Fluoranthene	0.00076	0.00011	µg/L	0.00017	W-GCMS-6/GBA	GX
Pyrene	0.00067	0.00013	µg/L	0.00017	W-GCMS-6/GBA	GX
Benz(a)anthracene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Chrysene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(b)fluoranthene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(k)fluoranthene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(a)pyrene	<0.00016	----	µg/L	0.00016	W-GCMS-6/GBA	GX
Dibenzo(a,h)anthracene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(g,h,i)perylene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Indeno(1.2.3.cd)pyrene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Sum of 16 PAH	0.00505 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of carcinogenic PAH	<0.00059 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of other PAH	0.00505 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH L	0.001 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH M	0.00405 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH H	<0.000675 *	----	µg/L	-	W-GCMS-6/GBA	GX
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	11.0	± 1.64	mg/L	4.00	W-CL-IC	PR
Nitrat i vatten (0,01 mg)						
Nitrate as N	0.037	0.01	mg/L	0.002	W-SPC-NO3/HUM	HU
Nitrate	0.16	0.04	mg/L	0.01	W-SPC-NO3/HUM	HU
Nitrit i vatten (SPC)						
Nitrites	<0.0050	----	mg/L	0.0050	W-NO2-SPC	PR
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
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



Parameter	Result	MU	Unit	LOR	Method	Issuer
Halogenated Volatile Organic Compounds - Continued						
OV-6B - Continued						
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
TOC i vatten						
Total Organic Carbon	1.42	± 0.45	mg/L	0.50	W-TOC	ST



Client sample ID

R25-1110-3/2-Myllulaekur V13

Laboratory sample ID

ST2522453-003

Client sampling date / time

Not specified

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	12.6	± 1.9	µg/L	0.2	W-SFMS-5A	LE
Arsenic	<0.05	----	µg/L	0.05	W-SFMS-5A	LE
Barium	0.0200	± 0.0050	µg/L	0.01	W-SFMS-5A	LE
Cadmium	<0.002	----	µg/L	0.002	W-SFMS-5A	LE
Calcium	5.68	± 0.71	mg/L	0.1	W-AES-1A	LE
Chromium	0.893	± 0.134	µg/L	0.01	W-SFMS-5A	LE
Cobalt	<0.005	----	µg/L	0.005	W-SFMS-5A	LE
Copper	<0.1	----	µg/L	0.1	W-SFMS-5A	LE
Iron	<0.0004	----	mg/L	0.0004	W-SFMS-5A	LE
Lead	0.0191	± 0.0034	µg/L	0.01	W-SFMS-5A	LE
Magnesium	0.799	± 0.094	mg/L	0.09	W-AES-1A	LE
Manganese	<0.03	----	µg/L	0.03	W-SFMS-5A	LE
Mercury	<0.002	----	µg/L	0.002	W-AFS-17V2	LE
Molybdenum	0.0826	± 0.0130	µg/L	0.05	W-SFMS-5A	LE
Nickel	<0.05	----	µg/L	0.05	W-SFMS-5A	LE
Phosphorus	16.9	± 2.8	µg/L	1	W-SFMS-5A	LE
Potassium	<0.4	----	mg/L	0.4	W-AES-1A	LE
Silicon	6.71	± 0.78	mg/L	0.03	W-AES-1A	LE
Sodium	11.6	± 1.4	mg/L	0.1	W-AES-1A	LE
Strontium	<2	----	µg/L	2	W-AES-1A	LE
Vanadium	14.8	± 2.2	µg/L	0.005	W-SFMS-5A	LE
Zinc	1.07	± 0.21	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	<0.01	----	µg/L	0.01	W-SFMS-5A	LE
Lithium	0.147 *	----	µg/L	0.050	W-SFMS-5A	LE
Selenium	<0.3	----	µg/L	0.3	W-SFMS-5A	LE
V-2-S						
Sulfur	0.733	± 0.086	mg/L	0.2	W-AES-1A	LE
BTEX						
OV-5A						
Benzene	<0.2	----	µg/L	0.2	HS-OV-21	ST
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



Parameter	Result	MU	Unit	LOR	Method	Issuer
Polycyclic Aromatics Hydrocarbons (PAHs)						
OV-1 låg LOQ						
Naphthalene	0.001	0.00025	µg/L	0.001	W-GCMS-6/GBA	GX
Acenaphthylene	<0.001	----	µg/L	0.001	W-GCMS-6/GBA	GX
Acenaphthene	<0.001	----	µg/L	0.001	W-GCMS-6/GBA	GX
Fluorene	0.00025	0.000038	µg/L	0.00017	W-GCMS-6/GBA	GX
Phenanthrene	0.001	0.00020	µg/L	0.001	W-GCMS-6/GBA	GX
Anthracene	0.00032	0.000064	µg/L	0.00017	W-GCMS-6/GBA	GX
Fluoranthene	0.00053	0.000080	µg/L	0.00017	W-GCMS-6/GBA	GX
Pyrene	0.00045	0.000090	µg/L	0.00017	W-GCMS-6/GBA	GX
Benz(a)anthracene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Chrysene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(b)fluoranthene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(k)fluoranthene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(a)pyrene	<0.00016	----	µg/L	0.00016	W-GCMS-6/GBA	GX
Dibenzo(a,h)anthracene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Benzo(g,h,i)perylene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Indeno(1.2.3.cd)pyrene	<0.00017	----	µg/L	0.00017	W-GCMS-6/GBA	GX
Sum of 16 PAH	0.00355 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of carcinogenic PAH	<0.00059 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of other PAH	0.00355 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH L	0.001 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH M	0.00255 *	----	µg/L	-	W-GCMS-6/GBA	GX
Sum of PAH H	<0.000675 *	----	µg/L	-	W-GCMS-6/GBA	GX
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	10.3	± 1.55	mg/L	4.00	W-CL-IC	PR
Nitrat i vatten (0,01 mg)						
Nitrate as N	0.040	0.01	mg/L	0.002	W-SPC-NO3/HUM	HU
Nitrate	0.18	0.04	mg/L	0.01	W-SPC-NO3/HUM	HU
Nitrit i vatten (SPC)						
Nitrites	<0.0050	----	mg/L	0.0050	W-NO2-SPC	PR
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
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



Parameter	Result	MU	Unit	LOR	Method	Issuer
Halogenated Volatile Organic Compounds - Continued						
OV-6B - Continued						
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
TOC i vatten						
Total Organic Carbon	1.86	± 0.53	mg/L	0.50	W-TOC	ST

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 W-AES-1A (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-SPC-NO3/HUM	Determination of nitrate according to DS 223:1991
W-GCMS-6/GBA	Determination of polycyclic aromatic hydrocarbons (PAH) according to DIN DIN 38407-39: 2011-09. Measurements are performed with GC/MS.
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-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-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
W-TOC	Determination of TOC in water with combustion and IR according to SS-EN 1484:1997 ed 1.



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

	<i>Issuer</i>
GX	<i>The analysis is provided by GBA Gesellschaft für Bioanalytik mbH, Flensburger Strasse 15 Pinneberg Germany 25421 Accredited by: DAkkS Accreditation Number: D-PL-14170-01-00</i>
HU	<i>The analysis is provided by ALS Denmark A/S, Bakkegårdsvej 406A Humlebæk Denmark 3050 Accredited by: DANAK Accreditation Number: 361</i>
LE	<i>The analysis is provided by ALS Scandinavia AB Luleå, Aurorum 10 Luleå Sweden 977 75 Accredited by: SWEDAC Accreditation Number: 2030, ISO/IEC 17025</i>
PR	<i>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: 1163, CSN EN ISO/IEC 17025:2018</i>
ST	<i>The analysis is provided by ALS Scandinavia AB Danderyd, Rinkebyvägen 19C Danderyd Sweden 182 36 Accredited by: SWEDAC Accreditation Number: 2030, ISO/IEC 17025</i>