

Report

T1822478

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Date received 2018-07-26
Issued 2018-08-07

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Project
Reference

Analysis of waste water

Your ID	R18-1817-1					
LabID	O11031155					
Analysis	Results	Uncertainty (±)	Unit	Method	Issuer	Sign
Ba	25.4	4.9	µg/l	1	H	FREN
Cd	<0.05		µg/l	1	H	FREN
Cr	0.987	0.227	µg/l	1	H	FREN
Cu	2.36	0.46	µg/l	1	H	FREN
Hg	<0.02		µg/l	1	F	FREN
Ni	3.43	0.75	µg/l	1	H	FREN
Pb	<0.5		µg/l	1	H	FREN
Zn	7.97	2.83	µg/l	1	H	FREN
Mo	1.22	0.24	µg/l	1	H	FREN
Se	<3		µg/l	2	H	FREN
ammonium	40.5	6.07	mg/l	3	1	VITA
ammonium nitrogen	31.4	4.71	mg/l	3	1	VITA
N-tot	30.7		mg/l	4	1	VITA
P-tot	0.052	0.100	mg/l	5	1	VITA
chloride	59.6	8.94	mg/l	6	1	VITA
sulphate	<5.00		mg/l	7	1	VITA
fluoride	<0.200		mg/l	8	1	VITA
phenol index	<0.005		mg/l	9	1	VITA
AOX	0.027	0.008	mg/l	10	1	VITA
tot ext aliphates	0.18	0.07	mg/l	11	1	VITA
non-polar aliphatics	<0.10		mg/l	11	1	VITA
tot ext aromatics	<0.10		mg/l	11	1	VITA



* indicates unaccredited analysis.

Method specification	
1	<p>Package V-3B. Determination of metals after microwave digestion with HNO₃. The measurement was carried out according to EPA-method 200.7(mod), SS EN ISO 11885(mod) (ICP-AES) and EPA-method 200.8(mod), SS EN ISO 17294-1,2(mod) (ICP-SFMS). Analysis of Hg with AFS according to SS-EN ISO 17852:2008.</p> <p>Special information for added metals to the package: W; the sample has been digested with HNO₃ and HF. Ag; the sample has been digested with HCl.</p> <p>Rev 2015-06-25</p>
2	Additional metals
3	<p>Spectrophotometric determination of ammonium NH₄, according to method based on CSN EN ISO 11732, CSN EN ISO 13395, CSN EN 13370 and CSN EN 12506. The method includes filtration of turbid samples.</p> <p>Rev 2013-09-18</p>
4	<p>Spechtrphotometric determination of total nitrogen, N-tot, calculated from nitrate-nitrogen + nitrate-nitrogen + Kjeldahl-nitrogen</p> <p>Rev 2015-02-19</p>
5	<p>Determination of total phosphorous, P-tot, with spectrophotometry according to method based on CSN EN ISO 6878 and CSN ISO 15681-1.</p> <p>Rev 2017-05-18</p>
6	<p>Determination of chloride using ion chromatography according to CSN ISO 10304-1 and CSN EN 12506. The method includes filtration of turbid samples.</p> <p>Rev 2013-09-17</p>
7	<p>Determination of sulfate using ion chromatography according to CSN ISO 10304-1 and CSN EN 12506. The method includes filtration of turbid samples.</p> <p>Rev 2013-09-17</p>
8	<p>Determination of fluoride using ion chromatography according to CSN ISO 10304-1 and CSN EN 12506. The method includes filtration of turbid samples.</p> <p>Rev 2013-09-17</p>
9	<p>Spectrophotometric determination of phenolindex according to method based on CSN ISO 6439.</p> <p>Rev 2013-09-19</p>
10	<p>Determination of adsorbable organically bound halogens (AOX) according to method based on CSN EN ISO 9562.</p> <p>Rev 2013-09-23</p>



Method specification	
11	<p>Package OV-20B. Determination of non-polar aliphatics, total extractable aliphatics and total extractable aromatics. The measurement is performed with (IR)-spectrometric method.</p> <p>Rev 2013-09-19</p>

Approver	
FREN	Fredrik Enzell
VITA	Viktoria Takacs

Issuer ¹	
F	<p>The determination is performed using AFS The analysis is provided by ALS Scandinavia AB, Aurorum 10, 977 75 Luleå, Sweden, which is a testing laboratory, accredited by the Swedish accreditation body SWEDAC (Reg.No. 2030).</p>
H	<p>The determination is performed using ICP-SFMS The analysis is provided by ALS Scandinavia AB, Aurorum 10, 977 75 Luleå, Sweden, which is a testing laboratory, accredited by the Swedish accreditation body SWEDAC (Reg.No. 2030).</p>
1	<p>The analysis is provided by ALS Laboratory Group, Na Harfê 9/336, 190 00, Prag 9, Czech Republic, which is a testing laboratory, accredited by the Czech accreditation body CAI (Reg.No 1163). CAI is a signatory to a MLA within EA, the same LA to which the Swedish accreditation body SWEDAC is also a signatory. The laboratories are located in; Prague, Na Harfê 9/336, 190 00, Praha 9, Ceska Lipa, Bendlova 1687/7, 470 01 Ceska Lipa, Pardubice, V Raji 906, 530 02 Pardubice.</p> <p>Contact the laboratory for further information.</p>

The uncertainty is given as extended uncertainty (according to the definition in "Guide to the Expression of Uncertainty in Measurement", JCGM 100:2008 Corrected version 2010) calculated with a coverage factor of 2, which gives a confidence 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.

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¹ The technical unit within ALS Scandinavia where the analysis was carried out, alternatively the subcontractor for the analysis.



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RANNSÓKNANIÐURSTÖÐUR
Útgefnar af faggildri rannsóknastofu
Report issued by Accredited laboratory

Síða 1 af 1

Heilbrigðiseftirlit Austurland
4710982729
Búðareyri 7
Reyðarfjörður

Sýni R18018170001
Vatn

Sýnatökudagsetning: 23/07/2018
Móttekið: 24/07/2018
Rannsakað: 24/07/2018

Tegund sýnis : Frárennslisvatn / Sigvatn
Sýnatökustaður : Sjá auðkenni
Auðkenni : Sorpurðun Þernunesi
Tílefni sýnatöku : Úttekt / könnun
Aðrar upplýsingar :
Skýringar :

Örverurannsóknir

Mæligildi Heimild

Eðlis- og Efnarannsóknir

Mæligildi Heimild

**C.O.D

49 mg/L

HACH, DR/2000 SP

**Leiðni (EVA3)

1.100 µS/cm

ISO 7888:2012

**Sýrustig (pH) (EVA1)

6,85

ISO 10523:2012

Mat sýnis

Ekki metið

Reykjavík,

25. júlí, 2018

Þessar rannsóknaniðurstöður eru
samþykktar með rafrænni undirskrift:

Hrólfur Sigurðsson
hrolfur.sigurdsson@matis.is

** Ekki faggildar niðurstöður

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

Niðurstöður gilda aðeins um það/þau sýni sem var/voru rannsakað/ rannsókuð.

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.