



ALS Denmark A/S
Bakkegårdsvej 406 A
DK-3050 Humlebæk
Telefon: +45 4925 0770
www.alsglobal.dk

ANALYSERAPPORT

Skelde Vandværk
Østerballe 11, Skelde
6310 Broager
Att.: Jørgen Vestergaard

Udskrevet: 24-09-2019
Version: 1
Modtaget: 02-09-2019
Analyseperiode: 02-09-2019 -
24-09-2019
Ordrenr.: 519640

Sagsnavn: Skelde Vandværk
Lokalitet: Skelde Vandværk
Prøvested: PS 3, Frydenlund 3
Prøve ID: Hane i køkken
Udtaget: 02.09.2019 kl. 7:24
Prøvetype: Drikkevand - Bek. 524: 2019, Hovedbestanddele
Prøvetager: LAB/UBO
Kunde: Skelde Vandværk, Østerballe 11, Skelde, 6310 Broager

Prøvenr.:	118027/19				
Parameter	Resultat	Enhed	Metode	Grænseværdi	Forbruger taphane jvf BEK 524:2019
Prøvetagning, Taphane (u. flush)	+	-	DS/EN ISO 19458:2006+MST Manual Ptag 4.udg.2017		
Temperatur ved prøvetagning	20.1	°C	-	-	Det bør tilstræbes, at vandet er højst 12°C ved taphanen
Chlorite	*1 <10	µg/l	CZ SOP D06 02 098	50 µg/l	
Enterokokker	<1	cfu/100 ml	DS/EN ISO 7899-2:2000	<1	
Fluorid, F-	0.27	mg/l	DS/EN ISO 10304-1:2009	1.5 mg/l	
Natrium, Na+	13	mg/l	DS/EN ISO 11885:2009	175 mg/l	
Mangan, Mn	<0.001	mg/l	DS/EN ISO 11885:2009	0.05 mg/l	
Ammonium+ammoniak, NH4+	<0.004	mg/l	SM 17udg. 4500-NH3	0.05 mg/l	
Nitrit, NO2-	<0.0010	mg/l	DS/ISO 15923:2013	0.1 mg/l	
Nitrat, NO3-	0.42	mg/l	DS/ISO 15923:2013 + beregning	50 mg/l	
Chlorid, Cl-	26	mg/l	DS/ISO 15923:2013	250 mg/l	
Sulfat, SO4--	30	mg/l	DS/ISO 15923:2013	250 mg/l	
NVOC	0.89	mg/l	DS/EN 1484:1997+SM 5310B:2014	4 mg/l	
Chlorat	*1 <10	µg/l	CZ SOP D06 02 098	50 µg/l	
Bromat	*1 <5.0	µg/l	CZ SOP D06 02 098	10 µg/l	
Bor, B	30	µg/l	DS/EN ISO 11885:2009	1000 µg/l	
Aluminium, Al	0.78	µg/l	DS/EN ISO 17294-2:2016	200 µl	
Antimon, Sb	0.22	µg/l	DS/EN ISO 17294-2:2016	5 µl	
Arsen, As	0.66	µg/l	DS/EN ISO 17294-2:2016	5 µl	
Bly, Pb	0.42	µg/l	DS/EN ISO 17294-2:2016	5 µl	
Cadmium, Cd	0.0065	µg/l	DS/EN ISO 17294-2:2016	3 µl	
Chrom, Cr	<0.010	µg/l	DS/EN ISO 17294-2:2016	50 µg/l	
Kobber, Cu	42	µg/l	DS/EN ISO 17294-2:2016	2000 µg/l	
Kobolt, Co	0.011	µg/l	DS/EN ISO 17294-2:2016		
Nikkel, Ni	0.26	µg/l	DS/EN ISO 17294-2:2016	20 µg/l	
Selen, Se	<0.050	µg/l	DS/EN ISO 17294-2:2016	10 µl	
Zink, Zn	74	µg/l	DS/EN ISO 17294-2:2016	3000 µg/l	
HS drikkevand	-	-	AK210 - HS GC/MS		
HS chlorerede drikkevand	-	-	AK210 - HS GC/MS		
HS chlorerede DRV TILLÆG	-	-	AK210 - HS GC/MS		
Benzen	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
PAH'er vandforsyning, 6 komp.	-	-	AK128 - GC/MS/SIM		
Fluoranthren	<0.010	µg/l	AK128 - GC/MS/SIM	0.1 µl	
Benzo(b+j+k)fluoranthener	<0.010	µg/l	AK128 - GC/MS/SIM		
Benz(a)pyren	<0.010	µg/l	AK128 - GC/MS/SIM	0.01 µl	
Indeno(1,2,3-cd)pyren	<0.010	µg/l	AK128 - GC/MS/SIM		
Benzo(ghi)perylene	<0.010	µg/l	AK128 - GC/MS/SIM		

side 1

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TEST Reg.nr. 361

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PAH, sum (4 komp. jf. bek. 524, 2019)	<0.1	µg/l	AK128 - GC/MS/SIM	0.1 µ/l	
PAH, sum (MST - 6 komp.)	i.p.	µg/l	AK128 - GC/MS/SIM		
HS chlor. nedbryd.		-	AK210 - HS GC/MS		
Trichlormethan (Chloroform)	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
1,1,1-trichlorethan	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
1,1,2-trichlorethan	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
Trichlorethylen	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
Tetrachlorethylen	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
1,1,2,2-tetrachlorethan	#	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l
1,1,1,2-tetrachlorethan	#	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l
Vinylchlorid	<0.020	µg/l	AK210 - HS GC/MS	0.5 µ/l	
1,1-dichlorethylen	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
trans-1,2-dichlorethylen	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
cis-1,2-dichlorethylen	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
1,2-dichlorethan	<0.020	µg/l	AK210 - HS GC/MS	1 µg/l	
Dichlormethan	<0.10	µg/l	AK210 - HS GC/MS	1 µg/l	
Epichlorhydrin	*1	<0.10	µg/l	Underleverandør - GC/MS	0.1 µ/l
Acrylamid	*1	<0.050	µg/l	Underleverandør - LC/MS/MS	0.1 µ/l
					Anvendelse af kemikalier med indhold heraf bør undgås til vandbehandling
Pesticider, Kartoffelavl		-	- - GC/LC/MS		
Pesticider, Drikkevand grundpakke		-	- - GC/LC/MS		
1,2,4-triazol	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l	
2,4-dichlorphenol	<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	I
2,6-Dichlorprop (2,6-DCPP)	#	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
2,6-dichlorbenzoesyre	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
2,6-dichlorphenol	<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	
4-CPP, (4-Chlorprop)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
4-nitrophenol	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Aminomethylphosphorsyre, AMPA	<0.010	µg/l	AK144 - LC/MS/MS	0.1 µg/l	
Atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
2,6-Dichlorbenzamid (BAM)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Bentazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Pesticider, Frugtavl (Diuron)		-	AK78 - LC/MS/MS		
Desphenyl-chloridazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Methyl-desphenyl-chloridazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metalaxyl/Metalaxyl-M	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
CGA108906 (Nedbr. af Metalaxyl)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
CGA62826 (Nedbr. af Metalaxyl)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethyldeisopropylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethyl-hydroxy-atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethylterbutylazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desisopropylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desisopropyl-hydroxy-atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Dichlobenil	<0.010	µg/l	AK78 - GC/MS	0.1 µg/l	
Dichlorprop(2,4-DP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Didealkyl-hydroxy-atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Diuron	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
ETU (Ethylthiourea)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Glyphosat	<0.010	µg/l	AK144 - LC/MS/MS	0.1 µg/l	
Hexazinon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Hydroxyatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Hydroxysimazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
MCPA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Mechlorprop(MCPP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-desamino	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-desamino-deketo	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-deketo	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	

side 2

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Simazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
N,N-Dimethylsulfamid (DMS)	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l
Total alpha aktivitet	*1 <0.04	Bq/l	CSN 75 7611	
Total beta aktivitet	*1 <0.10	Bq/l	CSN 75 7612	
Radon (EMA)	*1 4.5	Bq/l	CSN 75 7624	100 Bq/l
Total indicative dose (TID)	*1 <0.03	mSv/år	CZ_SOP_D06_07_372	
Tritium	*1 <10	Bq/l	CSN ISO 9698	
PFAS-forbindelser, MST 12 stoffer		-	DIN 38407-42	
PFBS	<0.0010	µg/l	DIN 38407-42	
PFBA	<0.0010	µg/l	DIN 38407-42	
PFPeA	<0.0050	µg/l	DIN 38407-42	
PFHpA	<0.0010	µg/l	DIN 38407-42	
PFHxS	<0.0010	µg/l	DIN 38407-42	
PFHxA	<0.0050	µg/l	DIN 38407-42	
PFNA	<0.0010	µg/l	DIN 38407-42	
PFDA	<0.0010	µg/l	DIN 38407-42	
PFOSA	<0.0010	µg/l	DIN 38407-42	
PFOS	<0.0010	µg/l	DIN 38407-42	0,006 µg/l
PFOA	<0.0010	µg/l	DIN 38407-42	0,003 µg/l
FTS 6:2	<0.0010	µg/l	DIN 38407-42	
Sum af PFAS, 12 stoffer	<0.010	µg/l	DIN 38407-42	

Kommentar

Højst tilladelige værdi er overholdt for de undersøgte parametre.

Underleverandør

*1 ALS Czech Republic s.r.o, CAI L1163

Helle Hornemann

Kopimodtagere:

Sønderborg Kommune, Rådhusstrøget 10, 6400 Sønderborg