



ALS Denmark A/S
Bakkegårdsvej 406 A
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ANALYSERAPPORT

Avnbøl-Ullerup Vandværk A.m.b.a.
Phillipsborgvej 1A, Ullerup
6400 Sønderborg
Att.: Kasserer

Udskrevet: 28-06-2021
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Ordrenr.: 642785

Sagsnavn Avnbøl-Ullerup Værket
Lokalitet: Avnbøl-Ullerup Vandværk A.m.b.a.
Prøvested: PS2: Trekanten 13, Ullerup, 6400 Sønderborg
Udtaget: 20.05.2021 kl. 12:18 - 20.05.2021 kl. 12:23:00
Prøvetype: Drikkevand - Bek. 1110:2021, Gruppe B Hovedbestanddele
Prøvetager: LAB/HBH
Kunde: Avnbøl-Ullerup Vandværk A.m.b.a., Phillipsborgvej 1A, Ullerup, 6400 Sønderborg, Att. Kasserer

Prøvenr.:		97753/21				
Parameter		Resultat	Enhed	Metode	Grænseværdi	Forbruger taphane jvf BEK 1110:2021
Partikler i prøve efter konservering	#	Nej	-	-	-	-
Prøvetagning, Taphane (u. flush)		+	-	DS/EN ISO 19458:2006+MST Manual Ptag 4.udg.2017	-	-
Temperatur ved prøvetagning		11.4	°C	-	-	Det bør tilstræbes, at vandet er højst 12°C ved taphanen
Chlorit	*1	<10	µg/l	CSN EN ISO 10304-4	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	
Mangan, Mn		<0.0020	mg/l	DS/EN ISO 11885:2009	0.05 mg/l	
Natrium, Na+		16	mg/l	DS/EN ISO 11885:2009	175 mg/l	
Ammonium+ammoniak, NH4+		0.0076	mg/l	DS/ISO 15923-1:2013+DS224:1975Mod	0.05 mg/l	
Nitrit, NO2-		<0.0010	mg/l	DS/ISO 15923-1:2013	0.1 mg/l	
Nitrat, NO3-		1.3	mg/l	DS/ISO 15923-1:2013 + beregning	50 mg/l	
Chlorid, Cl-		19	mg/l	DS/ISO 15923-1:2013		
Sulfat, SO4--		12	mg/l	DS/ISO 15923-1:2013	250 mg/l	
NVOC		2.1	mg/l	DS/EN 1484:1997+SM 5310B:2014	4 mg/l	
Chlorat	*1	<10	µg/l	CSN EN ISO 10304-4	50 µg/l	
Bromat	*1	<5.0	µg/l	CSN EN ISO 15061	10 µg/l	
Bor, B		58	µg/l	DS/EN ISO 11885:2009	1000 µg/l	
Aluminium, Al		1.4	µg/l	DS/EN ISO 17294-2:2016	200 µg/l	
Antimon, Sb		<0.20	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Arsen, As		1.0	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Bly, Pb		0.27	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Cadmium, Cd		<0.0030	µg/l	DS/EN ISO 17294-2:2016	3 µg/l	
Chrom, Cr		0.052	µg/l	DS/EN ISO 17294-2:2016	50 µg/l	
Kobber, Cu		0.055	mg/l	DS/EN ISO 17294-2:2016	2000 µg/l	
Kobolt, Co		0.010	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Nikkel, Ni		<0.030	µg/l	DS/EN ISO 17294-2:2016	20 µg/l	
Selen, Se		<0.050	µg/l	DS/EN ISO 17294-2:2016	10 µg/l	
Zink, Zn		0.0091	mg/l	DS/EN ISO 17294-2:2016	3 mg/l	
HS drikkevand		-	-	DS/EN ISO 10301:2000		
HS chlorerede DRV TILLÆG		-	-	DS/EN ISO 10301:2000		
PAH'er vandforsyning, 6 komp.		-	-	DIN 38407-F39		
Benzen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
Fluoranthen	*2	<0.0010	µg/l	DIN 38407-F39	0.1 µg/l	
Benzo(b)fluoranthen	*2	<0.0010	µg/l	DIN 38407-F39		
Benz(k)fluoranthen	*2	<0.0010	µg/l	DIN 38407-F39		
Benz(a)pyren	*2	<0.0010	µg/l	DIN 38407-F39	0.010 µg/l	
Indeno(1,2,3-cd)pyren	*2	<0.0010	µg/l	DIN 38407-F39		

side 1 af 3

Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for de(n) analyserede prøve(r).
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Benz(ghi)perylene	*2	<0.0010	µg/l	DIN 38407-F39		
PAH, sum (4 komp. jf. bek. 1110, 2021)	*2	<0.10	µg/l	DIN 38407-F39	0.1 µg/l	
PAH, sum (6 komp. jf. bek. 1110, 2021)	*2	<0.10	µg/l	DIN 38407-F39		
HS chlor. nedbryd.						
Trichlormethan (Chloroform)		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
1,1,1-trichlorethan		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
1,1,2-trichlorethan		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
Trichlorethylen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
Tetrachlorethylen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
1,1,2,2-tetrachlorethan		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
1,1,1,2-tetrachlorethan		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
Vinylchlorid		<0.020	µg/l	DS/EN ISO 10301:2000	0.5 µg/l	
1,1-dichlorethylen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
trans-1,2-dichlorethylen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
cis-1,2-dichlorethylen		<0.020	µg/l	DS/EN ISO 10301:2000	1 µg/l	
1,2-dichlorethan		<0.020	µg/l	DS/EN ISO 10301:2000	1.0 µg/l	
Dichlormethan		<0.10	µg/l	DS/EN ISO 10301:2000	1 µg/l	
Epichlorhydrin	*1	<0.10	µg/l	Underleverandør - GC/MS	0.1 µg/l	
2,6-dichlorphenol		<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	
Acrylamid	*1	<0.050	µg/l	Underleverandør - LC/MS/MS	0.1 µg/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	
2,6-DCPP (2-(2,6-dichlorphenoxy-propionsyre)), 2,6-dichlorprop		<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	
4-CPP, (4-Chlorprop)		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Aminomethylphosphonsyre, 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	
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	
4-nitrophenol		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
2,4-dichlorphenol		<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	I
Desethylatrazin		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethyl-desisopropylatrazin		<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	
Pesticider, Frugtavl (Diuron)						
			-	AK78 - LC/MS/MS		
Diuron		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
ETU (Ethylenthiourea)		<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	

side 2 af 3

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Metribuzin-desamino-diketo		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metribuzin-diketo		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
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
Chlorothalonilamid-sulfonsyre		<0.0050	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Pesticider, DRV BEK 1110: 2021			-	- - LC/MS/MS	
Alachlor ESA		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Dimethachlor ESA		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Dimethachlor OA		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metazachlor ESA		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Metazachlor OA		<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l
Propachlor ESA		<0.010	µg/l	AK78 - 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	<5.0	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 38407-42:2011-03	
PFHpA		<0.0010	µg/l	DIN 38407-42:2011-03	
PFOA		<0.0010	µg/l	DIN 38407-42:2011-03	0,003 µg/l
PFNA		<0.0010	µg/l	DIN 38407-42:2011-03	
PFBS		<0.0010	µg/l	DIN 38407-42:2011-03	
PFHxS		<0.0010	µg/l	DIN 38407-42:2011-03	
PFOS		<0.0010	µg/l	DIN 38407-42:2011-03	0,006 µg/l
PFOSA		<0.0010	µg/l	DIN 38407-42:2011-03	
PFHxA		<0.0050	µg/l	DIN 38407-42:2011-03	
PFBA		<0.0010	µg/l	DIN 38407-42:2011-03	
PFPeA		<0.0050	µg/l	DIN 38407-42:2011-03	
PFDA		<0.0010	µg/l	DIN 38407-42:2011-03	
FTS 6:2		<0.0010	µg/l	DIN 38407-42:2011-03	
Sum af PFAS, 12 stoffer	#	<0.010	µg/l	DIN 38407-42:2011-03	

Kommentar

Højst tilladelige værdi er overholdt for de undersøgte parametre.

Underleverandør

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

*2 GBA Gesellschaft für Bioanalytik mbH, DAkKS D-PL-14170-01-00

Majken Løyché

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