

RelyOn Nutec Denmark A/S
Uglviggårdsvej 3
6705 Esbjerg Ø
Att.: Rene Petersen

Report code: AR-20-CA-20063006-01
Batch code: EUDKVE-20063006
Client code: CA0000723
Received on: 10.11.2020

Analytical Report

Sample type: Waste water
Sampling Point: RelyOn Nutec, spildevand - / 20001561
Sampler: Eurofins Miljø Vand A/S SVT
Sampling: 10.11.2020 . 10:15
Test period: 10.11.2020 - 20.11.2020

Sample description:

Lab sample No.:	835-2014-80210375	Unit	LOQ	Method	^{m)} Urel (%)
Inhibition of nitrification					
Dilution	200	ml/l		Preparation	
Inhibition of nitrification 1 conc/std sludge	< 20	%	20	EN ISO 9509:2006 mod.	30
Sludge used for Inhibition of nitrification					
Sludge from a specific treatment plan				*	
Organic Assembly Parameters					
Oil	0.44	mg/l	0.1	DS/R 209 mod. Spectrophotometry (IR)	15
Aromatic hydrocarbons					
Benzene	< 0.02	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	20
Toluene	< 0.02	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	15
Ethylbenzene	< 0.02	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	20
Xylene (ortho-)	< 0.02	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	15
Xylene (meta-, para-)	< 0.02	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	15
Sum of xylenes	#	µg/l		ISO 11423-2:1997 mod. GC-MS	20
BTEX (sum)	#	µg/l		ISO 11423-2:1997 mod. GC-MS	20
PAH-compounds					
Acenaphthene	< 0.01	µg/l	0.01	M 0250 GC-MS	30
Fluorene	< 0.01	µg/l	0.01	M 0250 GC-MS	30
Phenanthrene	< 0.01	µg/l	0.01	M 0250 GC-MS	30
Fluoranthene	0.010	µg/l	0.01	M 0250 GC-MS	30
Pyrene	0.10	µg/l	0.01	M 0250 GC-MS	30
Benzo[b+j+k]fluoranthene	0.038	µg/l	0.01	M 0250 GC-MS	30
Benzo(a)pyrene	0.015	µg/l	0.01	M 0250 GC-MS	30
Indeno(1,2,3-cd)pyrene	0.023	µg/l	0.01	M 0250 GC-MS	30
Benzo(g,h,i)perylene	0.033	µg/l	0.01	M 0250 GC-MS	30
PAH, all	0.22	µg/l		M 0250 GC-MS	
Dioxins					
2,3,7,8-TetraCDD	< 0.686	pg/l	0.72	Internal GC-MS/MS	A
1,2,3,7,8-PentaCDD	< 0.914	pg/l	0.96	Internal GC-MS/MS	A
1,2,3,4,7,8-HexaCDD	< 1.83	pg/l	1.9	Internal GC-MS/MS	A
1,2,3,6,7,8-HexaCDD	< 1.83	pg/l	1.9	Internal GC-MS/MS	A
1,2,3,7,8,9-HexaCDD	< 1.83	pg/l	1.9	Internal GC-MS/MS	A

Legend:

<: less than
>: greater than
#: none of the parameters are detected
LOQ Limit of quantification

*) : Not included in the accreditation
n.d: not detected
NM: non-measurable
m): subcontractors

Urel (%): The expanded relative measurement uncertainty, with a coverage factor 2. For results at the level of detection limit the uncertainty might be higher than reported.

m): Uncertainties of microbiological parameters are given as a logarithmical standard deviation

The test results relate only to the items tested.

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PFOSA (Perfluorooctanesulfonamide)	<0.01	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFNA (Perfluorononanoic acid)	0.025	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFDA (Perfluorodecanoic acid)	0.014	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
Sum of PFAS	19	µg/l	0	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B

Information from sampler

Sampling method	Spot test		ISO 5667-10:1992:2007	C
Water temperature	10.2	°C	ISO 5667-10:1992:2007	C
pH	7.2	pH	DS/EN ISO 10523	C

Subcontractors:

A: Eurofins GfA Lab Service GmbH (Hamburg) (DIN EN ISO/IEC 17025:2018 Dakks D-PL-14629-01-00)
B: Eurofins Food & Feed Testing Sweden (Lidköping)
C: Eurofins Environment Water A/S (DS EN ISO/IEC 17025 DANAK 555)

835-2014-80210375 Sample comment:

Som standardrutine bliver alle prøver til totalkulbrinter på FID og/eller kulbrinter på GC-MS dekanteret inden analyse.
Sum af xylener er summen af resultaterne for Ethylbenzen, m+p-Xylen og o-Xylen.

Copy to:

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Esbjerg Kommune , miljo@esbjergkommune.dk, Torvegade 74, 6700 Esbjerg

20.11.2020



Customer center
Tel 70224231
G10@eurofins.dk

Sara Skovsende Mørk
Customer Advisor

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