

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

**Report code:** AR-21-CA-21057932-02  
**Batch code:** EUDKVE-21057932  
**Client code:** CA0000723  
**Received on:** 01.06.2021

## Analytical Report

**Sample type:** Waste water  
**Sampling Point:** RelyOn Nutec, spildevand - / 20001561  
**Sampler:** Eurofins Miljø Vand A/S SVT  
**Sampling:** 01.06.2021 . 12:20  
**Test period:** 01.06.2021 - 05.08.2021

### Sample description:

Lab sample No.:	835-2014-80210316	Unit	LOQ	Method	<sup>m)</sup> Urel (%)
<b>Inhibition of nitrification</b>					
Dilution	200	ml/l		Preparation	
Inhibition of nitrification 1 conc/std sludge	< 20	%	20	DS/EN ISO 9509:2006 mod.	25
<b>Sludge used for Inhibition of nitrification</b>					
Sludge from a specific treatment plan				*	
<b>Organic Assembly Parameters</b>					
Oil	< 0.1	mg/l	0.1	DS/R 209 mod. Spectrophotometry (IR)	15
<b>Aromatic hydrocarbons</b>					
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-)	0.024	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	15
Xylene (meta-, para-)	0.055	µg/l	0.02	ISO 11423-2:1997 mod. GC-MS	15
Sum of xylenes	0.079	µg/l		ISO 11423-2:1997 mod. GC-MS	20
BTEX (sum)	0.079	µg/l		ISO 11423-2:1997 mod. GC-MS	20
<b>PAH-compounds</b>					
Acenaphthene	< 0.01	µg/l	0.01	M 0250 GC-MS	30
Fluorene	0.016	µg/l	0.01	M 0250 GC-MS	30
Phenanthrene	0.016	µg/l	0.01	M 0250 GC-MS	30
Fluoranthene	0.040	µg/l	0.01	M 0250 GC-MS	30
Pyrene	0.096	µg/l	0.01	M 0250 GC-MS	30
Benzo[b+j+k]fluoranthene	0.039	µg/l	0.01	M 0250 GC-MS	30
Benzo(a)pyrene	0.027	µg/l	0.01	M 0250 GC-MS	30
Indeno(1,2,3-cd)pyrene	0.032	µg/l	0.01	M 0250 GC-MS	30
Benzo(g,h,i)perylene	0.077	µg/l	0.01	M 0250 GC-MS	30
PAH, all	0.34	µg/l		M 0250 GC-MS	
<b>Dioxins</b>					
2,3,7,8-TetraCDD	< 0.655	pg/l	0.72	Internal GC-MS/MS	A
1,2,3,7,8-PentaCDD	< 0.873	pg/l	0.96	Internal GC-MS/MS	A
1,2,3,4,7,8-HexaCDD	< 1.75	pg/l	1.9	Internal GC-MS/MS	A
1,2,3,6,7,8-HexaCDD	< 1.75	pg/l	1.9	Internal GC-MS/MS	A
1,2,3,7,8,9-HexaCDD	< 1.75	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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1,2,3,4,6,7,8-HeptaCDD	2.18	pg/l	1.6	Internal GC-MS/MS	A
OctaCDD	< 10.5	pg/l	12	Internal GC-MS/MS	A
2,3,7,8-TetraCDF	< 1.16	pg/l	1.3	Internal GC-MS/MS	A
1,2,3,7,8-PentaCDF	< 1.56	pg/l	1.7	Internal GC-MS/MS	A
2,3,4,7,8-PentaCDF	< 1.56	pg/l	1.7	Internal GC-MS/MS	A
1,2,3,4,7,8-HexaCDF	< 1.45	pg/l	1.6	Internal GC-MS/MS	A
1,2,3,6,7,8-HexaCDF	< 1.45	pg/l	1.6	Internal GC-MS/MS	A
1,2,3,7,8,9-HexaCDF	< 1.45	pg/l	1.6	Internal GC-MS/MS	A
2,3,4,6,7,8-HexaCDF	1.78	pg/l	1.6	Internal GC-MS/MS	A
1,2,3,4,6,7,8-HeptaCDF	5.36	pg/l	1.5	Internal GC-MS/MS	A
1,2,3,4,7,8,9-HeptaCDF	< 1.38	pg/l	1.5	Internal GC-MS/MS	A
OctaCDF	5.08	pg/l	3.2	Internal GC-MS/MS	A
WHO(2005)-PCDD/F TEQ (lower-bound)	0.255	pg/l		Internal GC-MS/MS	A
WHO(2005)-PCDD/F TEQ (upper-bound)	3.39	pg/l	3.6	Internal GC-MS/MS	A
I-TEQ (NATO/CCMS) (lower-bound)	0.258	pg/l		Internal GC-MS/MS	A
I-TEQ (NATO/CCMS) (upper-bound)	3.31	pg/l		Internal GC-MS/MS	A
<b>PFAS-compounds</b>					
PFBA (Perfluorobutanoic acid)	0.24	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFBS (Perfluorobutanesulfonic acid)	0.012	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFPeA (Perfluoropentanoic acid)	0.82	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFHxA (Perfluorohexanoic acid)	1.5	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFHxS (Perfluorohexanesulfonic acid)	0.48	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFHpA (Perfluoroheptanoic acid)	0.41	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFOA (Perfluorooctanoic acid)	0.16	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFOS (Perfluorooctanesulfonic acid)	4.4	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
6:2 FTS (Fluorotelomer sulfonate)	14	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40

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PFOSA (Perfluorooctanesulfonamide)	<0.001	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFNA (Perfluorononanoic acid)	0.036	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
PFDA (Perfluorodecanoic acid)	0.021	µg/l	0.001	* DIN38407-42, UNEP Chemicals Branch 2015 mod. LC-MS/MS	B 40
Sum of PFAS	22	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	10.9	°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)

### 835-2014-80210316 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. Detektionsgrænsen for PFAS er hævet pga. højt indhold af PFAS i prøven.

### Batch comments:

Revideret rapport erstatter tidligere fremsendt rapport. Vandmængde er påført rapporten.  
Vandmængde:  
Start: 16989,175 m3  
Slut: 16989,175 m3.

### Copy to:

DIN Forsyning Spildevand A/S, Kopimodtager, spildevand, Ulvsundvej 1, 6715 Esbjerg N  
Esbjerg Kommune, miljo@esbjergkommune.dk, Torvegade 74, 6700 Esbjerg

05.08.2021

Customer center  
Tel 70224231  
iww@eurofins.dk

  
Lea Mejdahl Lind  
Customer Adviser

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