

Order: E-24-037451
Reception date: 24/06/2024
Report date: 08/07/2024
Status: Final report

BIOTALYS NV
Buchtenstraat 11
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België

Analysis certificate

Eurofins ECCA is an independent laboratory accredited by BELAC according ISO 17025 nr. 051-TEST. Approved by the Belgian federal agency for the safety of the food chain (FASFC), The Brussels-Capital Region, Flemisch Land Agency (VLM), the department of environment (Omgeving) and the Public Waste Agency of Flanders (OVAM).

Overview

Our reference	External reference ^(c)
E-24-037451/01	Afvalwater

Results

E-24-037451/01	Afvalwater
Matrix:	Waste water
Sampling date:	24/06/2024
Sampling report:	available - see attachment
Sampling:	Eurofins ECCA
Sampling location:	Opslagtank afvalwater in kelder - tank
Temperature at sampling:	24,6 °C
Time of sampling (hour):	14
Time of sampling (min):	06
Packaging:	Multiple containers
Number of containers:	5
Sample condition:	conform CMA/1/B of WAC/1/A/010

Parameter	Result	Unit	m	M
Instantaneous sampling of water	executed			
SOP: LE-MS-0100 (Q-E) - Standard: WAC/II/A/003, ISO 5667-1,2,4,6 and 10				
Method: see sampling report				Start date: 24/06/2024

Benzene	<1.0	µg/l
Toluene	<1.0	µg/l
Ethylbenzene	<1.0	µg/l
m,p-xylene	<1.0	µg/l
o-xylene	<1.0	µg/l
Styrene	<1.0	µg/l

SOP: LE-CHR-0010-B (Q-E) - Standard: CMA/3/E and WAC/IV/A/016
 Method: Head Space-GC/MS

Start date: 27/06/2024

Vinyl chloride	<5.0	µg/l
Dichloromethane	<5.0	µg/l
1,2-dichloroethene (trans)	<5.0	µg/l
1,1-dichloroethane	<5.0	µg/l
1,2-dichloroethene (cis)	<5.0	µg/l
Chloroform	1.7	µg/l
1,1,1-trichloroethane	<5.0	µg/l
Tetrachloromethane	<5.0	µg/l
1,2-dichloroethane	<5.0	µg/l
1,1,2-trichloroethane	<5.0	µg/l
Trichloroethene	<5.0	µg/l
Tetrachloroethene	<5.0	µg/l
Monochlorobenzene	<5.0	µg/l
1,3-dichlorobenzene	<5.0	µg/l
1,4-dichlorobenzene	<5.0	µg/l
1,2-dichlorobenzene	<5.0	µg/l
Sum of VOCL	<5.0	µg/l

SOP: LE-CHR-0010-B (Q-E) - Standard: CMA/3/E en WAC/IV/A/016
 Method: Head Space-GC/MS

Start date: 02/07/2024

Phenol	5.1	µg/l
o-cresol	<0.10	µg/l
m-cresol	<0.10	µg/l
p-cresol	15	µg/l
2,3-dimethylphenol	<0.10	µg/l
2,4-dimethylphenol	<0.10	µg/l

Parameter	Result	Unit	m	M
2,5-dimethylphenol	<0.10	µg/l		
2,6-dimethylphenol	<0.10	µg/l		
3,4-dimethylphenol	<0.10	µg/l		
sum 4-ethylphenol+3,5-dimethylphenol	<0.10	µg/l		
2-ethylphenol	<0.10	µg/l		
3-ethylphenol	<0.10	µg/l		
4-chloro-3-methylphenol	<0.10	µg/l		
2-isopropylphenol	<0.10	µg/l		
2,3,5-trimethylphenol	<0.10	µg/l		
2-chlorophenol	0.13	µg/l		
3-chlorophenol	<0.10	µg/l		
4-chlorophenol	<0.10	µg/l		
2,6-dichlorophenol	<0.10	µg/l		
2,4+2,5-dichlorophenol	<0.10	µg/l		
3,5-dichlorophenol	<0.10	µg/l		
2,3-dichlorophenol	<0.10	µg/l		
3,4-dichlorophenol	<0.10	µg/l		
2,4,6-trichlorophenol	<0.10	µg/l		
2,3,6-trichlorophenol	<0.10	µg/l		
2,3,5-trichlorophenol	<0.10	µg/l		
2,4,5-trichlorophenol	<0.10	µg/l		
2,3,4-trichlorophenol	<0.10	µg/l		
3,4,5-trichlorophenol	<0.10	µg/l		
2,3,5,6-tetrachlorophenol	<0.10	µg/l		
2,3,4,6-tetrachlorophenol	<0.10	µg/l		
2,3,4,5-tetrachlorophenol	<0.10	µg/l		
Pentachlorophenol	<0.10	µg/l		
4-chloro-3,5-dimethylphenol	<0.10	µg/l		
Nonylphenol	<0.25	µg/l		
Bisphenol A	0.38	µg/l		
4-t-octylphenol	<0.030	µg/l		
Sum of monochlorophenols	0.13	µg/l		
Sum dichlorophenols	<0.10	µg/l		
Sum of trichlorophenols	<0.10	µg/l		
Sum of tetrachlorophenols	<0.10	µg/l		
Sum chlorophenols	0.13	µg/l		
Total phenols	21	µg/l		

SOP: LE-CHR-0070-B (NQ-E) - Standard: CMA/3/K & WAC/IV/A/001

Method: GC/MS

Start date: 03/07/2024

Methyl tertiary butyl ether	< 1.0	µg/l		
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SOP: LE-CHR-0010-B (Q-E) - Standard: CMA/3/E and WAC/IV/A/016

Method: Head Space-GC/MS

Start date: 27/06/2024

Sample preparation metals (environment)	X			
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SOP: LE-MET-2000-A (Q-E) - Standard: CMA/2/IIA.6.1 - WAC/III/B/002 - ISO 15587

Method: digestion of the elements via aqua regia destruction with digiprep

Start date: 25/06/2024

Phosphorus (P)	16	mg/l		
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SOP: LE-MET-0002 (Q-E) - Standard: ISO 17294-1, ISO 17294-2, CMA/2/II/B.5 and WAC/III/B/011

Method: ICPMS

Start date: 25/06/2024

Anionic detergents	0.72	mg/l		
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SOP: LE-LEM-0200-B (Q-E) - Standard: WAC/III/D, ISO 16265

Parameter	Result	Unit	m	M
<i>Method: flow analysis and spectrophotometry</i>			Start date: 28/06/2024	
Non-ionic detergents	0.86	mg/l		
<i>SOP: LE-LEM-0220-A (NQ) - Standard: cuvette test</i>			Start date: 29/06/2024	
<i>Method: photometry</i>				
Sum detergents	1.7	mg/l		
<i>SOP: berekening () - Standard: calculation</i>			Start date: 29/06/2024	
<i>Method: calculation</i>				
Dodecyltrimethylammonium (C12ATMA)	<0.01	mg/l		
Tetradecyltrimethylammonium (C14ATMA)	<0.01	mg/l		
Hexadecyltrimethylammonium (C16ATMA)	<0.01	mg/l		
Octadecyltrimethylammonium (C18ATMA)	<0.01	mg/l		
Didecyldimethylammonium (C10DADMA)	<0.01	mg/l		
Didodecyldimethylammonium (C12DADMA)	<0.01	mg/l		
Ditetradecyldimethylammonium (C14DADMA)	<0.05	mg/l		
Dihexadecyldimethylammonium (C16DADMA)	<0.05	mg/l		
Diocadecyldimethylammonium (C18DADMA)	<0.01	mg/l		
Dodecyldimethylbenzylammonium (C12ADMBA)	0.09	mg/l		
Tetradecyldimethylbenzylamm (C14ADMBA)	0.03	mg/l		
Hexadecyldimethylbenzylamm (C16ADMBA)	<0.01	mg/l		
Octadecyldimethylbenzylamm (C18ADMBA)	<0.01	mg/l		
Benzeth	<0.01	mg/l		
Dodecylpyridinium (C12PYR)	<0.01	mg/l		
Hexadecylpyridinium (C16PYR)	<0.01	mg/l		
Dodecylisoquinolinium (C12ISOQUIN)	<0.01	mg/l		
Sum of cationic detergents	0.12	mg/l		
<i>SOP: LE-CHR-1100 (NQ-E) - Standard: WAC/IV/A/022</i>			Start date: 25/06/2024	
<i>Method: LC MS MS (concentrations of C14DADMA, C16DADMA & C18DADMA should be regarded as indicative)</i>				

Remarks

The sample was filtered through a pleated filter for detergents due to the presence of particles.



Dr. Tom Benijts
Operational director

Legend

(N)Q	analytical method (not) incorporated in BELAC accreditation 051-TEST
(N)Q-ECCA btx	analytical method performed by Eurofins ECCA btx and (not) included in BELAC accreditation 179-TEST
(N)Q-EXT	analysis outsourced to external lab and (not) accredited. (extra information can be obtained via cs@labecca.be)
E	analytical method included in admission VLAREL of the performing lab - in case of outsourcing see report under VLAREL in the attachment
W	Laboratory recognized for waste analysis in accordance with: l'arrêté du Gouvernement wallon du 11 avril 2019 établissant les conditions d'enregistrement des préleveurs d'échantillons de déchets et les conditions d'agrément des laboratoires d'analyse des déchets.
U	Expanded measurement uncertainty of the analytical result (i.e. 95% reliability interval) without uncertainty arising from sampling. Other measurement uncertainties can be obtained.
!	not conform (without taking into account the measurement uncertainty)
*	analysis started beyond the expiration date
**	sample date and hour unknown, lab can not guarantee that analyzes were carried out within legal sustainability
m	lower limit
M	upper limit
(1)	estimated value
Conclusion	Any (out-of-specification result) should undergo a risk assessment.
(c)	information provided by the customer

The above results relate exclusively to the above-mentioned test objects. Partial reproduction of this analysis report is only permitted after written permission from Eurofins ECCA. Results apply to the samples as received, unless otherwise indicated.