



CERTIFICATE OF ANALYSIS

Work Order	: PR2258582	Issue Date	: 23-Jun-2022
Customer	: Aikaterini Laskaridis Foundation	Laboratory	: ALS Czech Republic, s.r.o.
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Project	: ----	Page	: 1 of 3
Order number	: ----	Date Samples	: 10-Jun-2022
		Received	
		Quote number	: PR2022AIKLF-GR0002 (CZ-206-220-0405)
Site	: ----	Date of test	: 13-Jun-2022 - 23-Jun-2022
Sampled by	: client	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.

The laboratory declares that the test results relate only to the listed samples. If the section "Sampled by" of the Certificate of analysis states: "Sampled by Customer" then the results relate to the sample as received.

Responsible for accuracy

Testing Laboratory No. 1163
Accredited by CAI according to
CSN EN ISO/IEC 17025:2018

Signatories

Zdeněk Jiráček

Position

Environmental Business Unit
Manager



The company is certified according to ČSN EN ISO 14001 (Environmental management systems) and ČSN ISO 45001 (Occupational health and safety management systems)



Analytical Results

Sub-Matrix: WATER				Client sample ID		NE 3		NE 6		NE 9	
				Laboratory sample ID		PR2258582001		PR2258582002		PR2258582003	
				Client sampling date / time		[10-Jun-2022]		[10-Jun-2022]		[10-Jun-2022]	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU		
PCDDs and PCDFs (Dioxins and Furans)											
2378-TCDD	W-DFHMS01	-	pg/L	<0.38	---	<0.51	---	<0.55	---		
12378-PeCDD	W-DFHMS01	-	pg/L	<1.4	---	<1.2	---	<1.4	---		
123478-HxCDD	W-DFHMS01	-	pg/L	<4.6	---	<2.6	---	<4.6	---		
123678-HxCDD	W-DFHMS01	-	pg/L	<3	---	<2.1	---	<4.6	---		
123789-HxCDD	W-DFHMS01	-	pg/L	<3	---	<2.1	---	<4.6	---		
1234678-HpCDD	W-DFHMS01	-	pg/L	<1.6	---	<1.2	---	<1.8	---		
OCDD	W-DFHMS01	-	pg/L	<1.4	---	<1.2	---	<2.2	---		
2378-TCDF	W-DFHMS01	-	pg/L	<0.92	---	<0.76	---	<0.66	---		
12378-PeCDF	W-DFHMS01	-	pg/L	<1.5	---	<1.5	---	<2.7	---		
23478-PeCDF	W-DFHMS01	-	pg/L	<2	---	<3.5	---	<1.7	---		
123478-HxCDF	W-DFHMS01	-	pg/L	<1.8	---	<1.9	---	<1.3	---		
123678-HxCDF	W-DFHMS01	-	pg/L	<2.4	---	<2.5	---	<1.6	---		
123789-HxCDF	W-DFHMS01	-	pg/L	<2.9	---	<2.8	---	<3.6	---		
234678-HxCDF	W-DFHMS01	-	pg/L	<2.9	---	<2.1	---	<3.2	---		
1234678-HpCDF	W-DFHMS01	-	pg/L	<19	---	<4.3	---	<1.3	---		
1234789-HpCDF	W-DFHMS01	-	pg/L	<22	---	<1.8	---	<1.3	---		
OCDF	W-DFHMS01	-	pg/L	<1.8	---	<1.5	---	<2.8	---		
TEQ-Lowerbound	W-DFHMS01	-	pg/L	0	---	0	---	0	---		
TEQ-Upperbound	W-DFHMS01	-	pg/L	4.7	---	4.7	---	4.7	---		

Sub-Matrix: WATER				Client sample ID		NE 10		NE 11		----	
				Laboratory sample ID		PR2258582004		PR2258582005		----	
				Client sampling date / time		[10-Jun-2022]		[10-Jun-2022]		----	
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU		
PCDDs and PCDFs (Dioxins and Furans)											
2378-TCDD	W-DFHMS01	-	pg/L	<0.86	---	<0.69	---	----	----		
12378-PeCDD	W-DFHMS01	-	pg/L	<1.2	---	<1	---	----	----		
123478-HxCDD	W-DFHMS01	-	pg/L	<2.5	---	<4.8	---	----	----		
123678-HxCDD	W-DFHMS01	-	pg/L	<2.1	---	<3.9	---	----	----		
123789-HxCDD	W-DFHMS01	-	pg/L	<2.1	---	<3.9	---	----	----		
1234678-HpCDD	W-DFHMS01	-	pg/L	<1.1	---	<1.3	---	----	----		
OCDD	W-DFHMS01	-	pg/L	<2.4	---	<1.7	---	----	----		
2378-TCDF	W-DFHMS01	-	pg/L	<0.66	---	<0.6	---	----	----		
12378-PeCDF	W-DFHMS01	-	pg/L	<2.6	---	<2.3	---	----	----		
23478-PeCDF	W-DFHMS01	-	pg/L	<3.1	---	<2.3	---	----	----		
123478-HxCDF	W-DFHMS01	-	pg/L	<1.8	---	<1.6	---	----	----		
123678-HxCDF	W-DFHMS01	-	pg/L	<2	---	<2.2	---	----	----		
123789-HxCDF	W-DFHMS01	-	pg/L	<2.1	---	<4.2	---	----	----		
234678-HxCDF	W-DFHMS01	-	pg/L	<2.1	---	<2.2	---	----	----		
1234678-HpCDF	W-DFHMS01	-	pg/L	<1.5	---	<1.7	---	----	----		
1234789-HpCDF	W-DFHMS01	-	pg/L	<1.5	---	<1.5	---	----	----		
OCDF	W-DFHMS01	-	pg/L	<3.1	---	<2.1	---	----	----		
TEQ-Lowerbound	W-DFHMS01	-	pg/L	0	---	0	---	----	----		
TEQ-Upperbound	W-DFHMS01	-	pg/L	4.7	---	4.8	---	----	----		

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor $k = 2$, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty. The MU does not include sampling uncertainty.

The end of result part of the certificate of analysis



Brief Method Summaries

<i>Analytical Methods</i>	<i>Method Descriptions</i>
<i>Location of test performance: V Raji 906 Pardubice - Zelene Predmesti Czech Republic 530 02</i>	
W-DFHMS01	CZ_SOP_D06_06_175 - except chap. 10.2.3.2-10.2.3.8, 10.2.4, 10.2.5 (US EPA 1613B, CSN EN 16190): Determination of tetra- to octa-chlorinated dioxins and furanes by isotope dilution method using HRGC-HRMS and calculation of TEQ parameters from measured values. The samples were stored in laboratory in the darkness and under temperature <4°C. Actual LOQ are noticed in the annex.

A “**“ symbol preceding any method indicates laboratory or subcontractor non-accredited test. If the UNICO-SUB code is stated in the method table, this only informs that the tests have been performed by a subcontractor and the results are given in an annex to the test report, including information on test accreditation. In the case when a procedure specified in an accredited method was used for non-accredited matrix, the reported results are non-accredited; please refer to information in General Comment section on the front page. If the report contains subcontracted analyses, those are made in a subcontracted laboratory outside the laboratories ALS Czech Republic, s.r.o.

The calculation methods of summation parameters are available on request in the client service.