

RESULT OF THE ANALYSIS No. 3992/2018

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EKO-TERM SERVIS s.r.o.
Napájadlá 11/2743
040 12 Košice

Name sample : PUF 2

Place of sampling : UAB „Fortum Klaipeda,, , Lithuania, waste incinerator

Colecion of samples: EKO TERM -SERVIS s.r.o, Košice

Date of service: 24.9.2018

Sampling method: STN EN 1948-1

Date of collection : 17.9.2018

Sampel charecteristic : emisie

Termination date : 3.10.18

The analysis results are to the subject matter of the analysis and not replace any other documents.

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Results of tests

Parameter	Unit	Sample No.	Value	Method
suma PCDD/F	ng TEQ/sample	18007842	0,01736	A STN EN 1948

A/N : accredited / not accredited
uncertainty U K=2 (95% probability)

Note on sampling: Sampling is not covered by this Protocol

Košice, dated: 3.10.2018

Head chemist: Ing. Eva Jusková



Autorized:

Ing. Eva Jusková
Head manager of the laboratory

Partial results:

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	I-TEF	Contcent.PCDD/F ng/sample.	Contcent. PCDD/F ngTEQ/sample
2378TCDD	1	<0,004	<0,0040
12378PeCDD	0,5	<0,010	<0,005
123478HxCDD	0,1	<0,010	<0,0010
123678HxCDD	0,1	<0,010	<0,001
123789HxCDD	0,1	<0,010	<0,001
1234678HpCDD	0,01	0,013	0,00013
OCDD	0,001	0,033	0,000033
Suma PCDD		0,0460	0,01216
2378TCDF	0,1	<0,004	<0,0004
12378PeCDF	0,05	<0,010	<0,0005
23478PeCDF	0,5	<0,010	<0,005
123478HxCDF	0,1	<0,010	<0,001
123678HxCDF	0,1	<0,010	<0,001
234678HxCDF	0,1	<0,010	<0,001
123789HxCDF	0,1	<0,010	<0,001
1234678HpCDF	0,01	0,017	0,0002
1234789HpCDF	0,01	<0,010	<0,0001
OCDF	0,001	<0,020	<0,000020
Suma PCDF		0,1105	<0,0052
Suma PCDD/F		0,1565	0,01736

Limit of quantification - shown in the table as the value of <

EQ value is given by the sum of the values of the concentrations of individual PCDD / F by multiplying the I-TEF

If the concentration of the wage determination is to TEQ values calculated LOD

Values of I-TEFpro PCDD / F used by Ministry of Environment Decree 410/2012 Coll

Disclaimer:

Chemical analysis was performed according to the IPP 464 (EN 1948 2.3)

The main difference IPP 464 - type mass detector triple qadrupol

The method was validated under the accreditation criteria.

For validation of the method under the following parameters:

- Expanded uncertainty: 30%

The volume of the sample after concentrating 100 μ l

Injection: 2 ml

13C12 standad	Typ	Extraction
		%
2378TCDD	Extraction	92
12378PeCDD	Extraction	104
123478HxCDD	Extraction	105
123678HxCDD	Extraction	83
1234678HpCDD	Extraction	99
OCDD	Extraction	103
2378TCDF	Extraction	78
23478PeCDF	Extraction	80
123478HxCDF	Extraction	70
123678HxCDF	Extraction	65
234678HxCDF	Extraction	68
1234678HpCDF	Extraction	71
OCDF	Extraction	77
12378PeCDF	Sampling	<1
123789HxCDF	Sampling	<1
1234789HpCDF	Sampling	<1

The Annex is an integral part of the relevant protocol

It may be reproduced only with this Protocol

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 Chemist Supervisor: Ing. Eva Jusková



Ing. Eva Jusková
 Head manager of the laboratory