

Analytical report N° 2804 of 03/05/2023

Spett.le **TECHFEM SPA**

VIA TONIOLO, 1/D
61032 FANO (PU)

Sampling data

Sampling Method -
Samples took by customer, taken by our staff
Sampling: Place, date and hour : -
Received sample date 24/03/2023
Start analyses date 24/03/2023 Finished analyses date 03/05/2023

Sample n° : **2843 / 1170 Rock: TP43 (da 0,00 a 1,00)**

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Skeleton (> 2mm e < 2cm)	%	100		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
fine powder (<2mm)	%	0		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
Polycyclic aromatic hydrocarbons		-		--	--	
Dibenzo(a,h)anthracene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)anthracene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(b)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(g,h,i)perylene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(k)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Crysene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Pyrene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Indeno(1,2,3-cd)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,l)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,i)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(e)pyrene	* mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018

parameter researched	Unit of Measure	value	MDL	Reference min	Limit max	Method of analysis
Nafthalene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthylene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Fenanthrene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Anthracene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Chloride	° mg/kg s.s.	410		--	--	IRSA-CNR Q64 N. 14
Total Organic Carbon	* mg/kg s.s.	6700		--	--	DM 13/09/99 GU 248 21/10/99 e smi Met. VII.3
Sulphate	mg/kg s.s.	703		--	--	IRSA-CNR Q64 N. 14
PCB 101	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 118	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 138	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 153	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 180	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 28	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 52	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
BTEX	* mg/kg s.s.	-		--	--	
Benzene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 5021A 2014 + EPA 8260D 2018
Ethylbenzene	* mg/kg s.s.	nr	0,01	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Styrene	* mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Toluene	* mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
o,m,p xylene	* mg/kg s.s.	nr	0,001	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Hydrocarbons C>12	mg/kg s.s.	nr	4	--	50	UNI EN ISO 16703:2011
Tributyltin compounds	° * mg/kg s.s.	nr	1	--	1	UNI EN ISO 23161:2011
Metals		-		--	--	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Limit max	Method of analysis
Arsenic	mg/kg s.s.	0,25	0,08	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cadmium	mg/kg s.s.	0,32	0,02	--	2	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cobalt	mg/kg s.s.	0,60	0,02	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Chrome	mg/kg s.s.	11,9	0,03	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Mercury	* mg/kg s.s.	nr	0,1	--	1	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Nickel	mg/kg s.s.	3,0	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Lead	mg/kg s.s.	0,70	0,07	--	100	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Copper	mg/kg s.s.	2,1	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Zinc	mg/kg s.s.	18,8	0,2	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Asbestos	* mg/kg s.s.	<1000		--	1000	DM 06/09/1994 GU N.288 10/12/1994 All1A+All1B+VDI3866 Blatt2:2001

* Test not accredited by ACCREDIA

° Test performed in subcontract to an external laboratory

MDL: Detection limit of the method, nr: not detected, indicates a value less than MDL

The Lab is responsible for all the information reported in the following document, except in the case information are provided by the clients. In the latter case, if the information provided by the clients can affect the validity of analyses' results, the lab disclaims responsibility. The following test-report exclusively concerns the declared and analyzed sample. However, whenever the sampling is not executed by the Lab, sample data are under customer's responsibility. Results refer to the sample thus received.

In the case the sampling is executed by the client, the result thus expressed in units of measurement is obtained through recalculation carried out on the basis of the measurement expressly declared by who has done the sampling.

Legislative reference: D. lgs. 152/06, all. 5, parte IV Tab. 1/A

dott. Caterina Tassoni

Responsabile Prove Chimiche Ordine Chimici
Calabria n° 634

Documento firmato digitalmente valido a tutti gli effetti di Legge ai sensi della normativa vigente

We declare that the results relate only to the sample referred to the references cited above. The samples are stored until the end of the test. Any additional retention shall be made only on written request. The test report shall not be reproduced or used for advertising purposes without the written permission of the Director of Laboratory and together with the records of the tests will be kept for 5 years. The uncertainty reported in this Test Report is expressed as expanded uncertainty for a confidence level of 95%. The level of confidence of 95% corresponds to a coverage factor equal to 2.

Analytical report N° 2805 of 03/05/2023

Spett.le **TECHFEM SPA**

VIA TONIOLO, 1/D
61032 FANO (PU)

Sampling data

Sampling Method -
Samples took by customer, taken by our staff
Sampling: Place, date and hour : -
Received sample date 24/03/2023
Start analyses date 24/03/2023 Finished analyses date 03/05/2023

Sample n° : **2844 / 1170 Soil: TP44 (da 1,00 a 1,60)**

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Skeleton (> 2mm e < 2cm)	%	17		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
fine powder (<2mm)	%	83		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
Polycyclic aromatic hydrocarbons		-		--	--	
Dibenzo(a,h)anthracene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)anthracene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(b)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(g,h,i)perylene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(k)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Crysene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Pyrene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Indeno(1,2,3-cd)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,l)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,i)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(e)pyrene	* mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Limit max	Method of analysis
Nafthalene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthylene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Fenanthrene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Anthracene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Chloride °	mg/kg s.s.	297		--	--	IRSA-CNR Q64 N. 14
Total Organic Carbon *	mg/kg s.s.	14700		--	--	DM 13/09/99 GU 248 21/10/99 e smi Met. VII.3
Sulphate	mg/kg s.s.	94		--	--	IRSA-CNR Q64 N. 14
PCB 101 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 118 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 138 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 153 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 180 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 28 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 52 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
BTEX *		-		--	--	
Benzene *	mg/kg s.s.	nr	0,01	--	0,1	EPA 5021A 2014 + EPA 8260D 2018
Ethylbenzene *	mg/kg s.s.	nr	0,01	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Styrene *	mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Toluene *	mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
o,m,p xylene *	mg/kg s.s.	nr	0,001	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Hydrocarbons C>12	mg/kg s.s.	34	4	--	50	UNI EN ISO 16703:2011
Tributyltin compounds ° *	mg/kg s.s.	nr	1	--	1	UNI EN ISO 23161:2011
Metals		-		--	--	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Arsenic	mg/kg s.s.	3,0	0,08	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cadmium	mg/kg s.s.	0,38	0,02	--	2	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cobalt	mg/kg s.s.	0,94	0,02	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Chrome	mg/kg s.s.	18,6	0,03	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Mercury *	mg/kg s.s.	nr	0,1	--	1	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Nickel	mg/kg s.s.	7,6	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Lead	mg/kg s.s.	2,2	0,07	--	100	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Copper	mg/kg s.s.	4,7	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Zinc	mg/kg s.s.	13,5	0,2	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Asbestos *	mg/kg s.s.	<1000		--	1000	DM 06/09/1994 GU N.288 10/12/1994 All1A+All1B+VDI3866 Blatt2:2001

* Test not accredited by ACCREDIA

° Test performed in subcontract to an external laboratory

MDL: Detection limit of the method, nr: not detected, indicates a value less than MDL

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Legislative reference: D. lgs. 152/06, all. 5, parte IV Tab. 1/A

dott. Caterina Tassoni

Responsabile Prove Chimiche Ordine Chimici
Calabria n° 634

Documento firmato digitalmente valido a tutti gli effetti di Legge ai sensi della normativa vigente

We declare that the results relate only to the sample referred to the references cited above. The samples are stored until the end of the test. Any additional retention shall be made only on written request. The test report shall not be reproduced or used for advertising purposes without the written permission of the Director of Laboratory and together with the records of the tests will be kept for 5 years. The uncertainty reported in this Test Report is expressed as expanded uncertainty for a confidence level of 95%. The level of confidence of 95% corresponds to a coverage factor equal to 2.

**Analytical report N° 2806
of 03/05/2023**

Spett.le TECHFEM SPA

VIA TONIOLO, 1/D
61032 FANO (PU)

Sampling data

Sampling Method -
Samples took by customer, taken by our staff
Sampling: Place, date and hour : -
Received sample date 24/03/2023
Start analyses date 24/03/2023 Finished analyses date 03/05/2023

Sample n° : **2845/ 1170 Soil: TP45 (da 1,00 a 1,60)**

parameter researched	Unit of Measure	value	MDL	Reference min	Limit max	Method of analysis
Skeleton (> 2mm e < 2cm)	%	41		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
fine powder (<2mm)	%	59		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
Polycyclic aromatic hydrocarbons		-		--	--	
Dibenzo(a,h)anthracene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)anthracene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(b)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(g,h,i)perylene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(k)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Crysene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Pyrene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Indeno(1,2,3-cd)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,l)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,i)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(e)pyrene	* mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018

parameter researched	Unit of Measure	value	MDL	Reference min	Limit max	Method of analysis
Nafthalene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthylene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Fenanthrene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Anthracene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Chloride °	mg/kg s.s.	228		--	--	IRSA-CNR Q64 N. 14
Total Organic Carbon *	mg/kg s.s.	12200		--	--	DM 13/09/99 GU 248 21/10/99 e smi Met. VII.3
Sulphate	mg/kg s.s.	143		--	--	IRSA-CNR Q64 N. 14
PCB 101 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 118 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 138 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 153 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 180 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 28 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 52 *	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
BTEX *		-		--	--	
Benzene *	mg/kg s.s.	nr	0,01	--	0,1	EPA 5021A 2014 + EPA 8260D 2018
Ethylbenzene *	mg/kg s.s.	nr	0,01	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Styrene *	mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Toluene *	mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
o,m,p xylene *	mg/kg s.s.	nr	0,001	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Hydrocarbons C>12	mg/kg s.s.	nr	4	--	50	UNI EN ISO 16703:2011
Tributyltin compounds ° *	mg/kg s.s.	nr	1	--	1	UNI EN ISO 23161:2011
Metals		-		--	--	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Arsenic	mg/kg s.s.	1,89	0,08	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cadmium	mg/kg s.s.	0,36	0,02	--	2	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cobalt	mg/kg s.s.	0,85	0,02	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Chrome	mg/kg s.s.	9,2	0,03	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Mercury *	mg/kg s.s.	nr	0,1	--	1	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Nickel	mg/kg s.s.	4,8	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Lead	mg/kg s.s.	2,4	0,07	--	100	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Copper	mg/kg s.s.	3,9	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Zinc	mg/kg s.s.	42	0,2	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Asbestos *	mg/kg s.s.	<1000		--	1000	DM 06/09/1994 GU N.288 10/12/1994 All1A+All1B+VDI3866 Blatt2:2001

* Test not accredited by ACCREDIA

° Test performed in subcontract to an external laboratory

MDL: Detection limit of the method, nr: not detected, indicates a value less than MDL

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Legislative reference: D. lgs. 152/06, all. 5, parte IV Tab. 1/A

dott. Caterina Tassoni

Responsabile Prove Chimiche Ordine Chimici
Calabria n° 634

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Analytical report N° 2807 of 03/05/2023

Spett.le **TECHFEM SPA**

VIA TONIOLO, 1/D
61032 FANO (PU)

Sampling data

Sampling Method -
Samples took by customer, taken by our staff
Sampling: Place, date and hour : -
Received sample date 24/03/2023
Start analyses date 24/03/2023 Finished analyses date 03/05/2023

Sample n° : **2846/ 1170 Soil: TP46 (da 1,00 a 1,60)**

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Skeleton (> 2mm e < 2cm)	%	19		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
fine powder (<2mm)	%	81		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
Polycyclic aromatic hydrocarbons		-		--	--	
Dibenzo(a,h)anthracene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)anthracene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(b)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(g,h,i)perylene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(k)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Crysene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Pyrene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Indeno(1,2,3-cd)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,l)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,i)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(e)pyrene	* mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Limit max	Method of analysis
Nafthalene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthylene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Fenanthrene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Anthracene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Chloride	mg/kg s.s.	488		--	--	IRSA-CNR Q64 N. 14
Total Organic Carbon	mg/kg s.s.	14500		--	--	DM 13/09/99 GU 248 21/10/99 e smi Met. VII.3
Sulphate	mg/kg s.s.	235		--	--	IRSA-CNR Q64 N. 14
PCB 101	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 118	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 138	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 153	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 180	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 28	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 52	mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
BTEX		-		--	--	
Benzene	mg/kg s.s.	nr	0,01	--	0,1	EPA 5021A 2014 + EPA 8260D 2018
Ethylbenzene	mg/kg s.s.	nr	0,01	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Styrene	mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Toluene	mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
o,m,p xylene	mg/kg s.s.	nr	0,001	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Hydrocarbons C>12	mg/kg s.s.	6	4	--	50	UNI EN ISO 16703:2011
Tributyltin compounds	mg/kg s.s.	nr	1	--	1	UNI EN ISO 23161:2011
Metals		-		--	--	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Arsenic	mg/kg s.s.	2,5	0,08	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cadmium	mg/kg s.s.	0,41	0,02	--	2	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cobalt	mg/kg s.s.	1,91	0,02	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Chrome	mg/kg s.s.	24	0,03	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Mercury *	mg/kg s.s.	nr	0,1	--	1	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Nickel	mg/kg s.s.	10,7	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Lead	mg/kg s.s.	17,9	0,07	--	100	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Copper	mg/kg s.s.	12,7	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Zinc	mg/kg s.s.	38	0,2	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Asbestos *	mg/kg s.s.	<1000		--	1000	DM 06/09/1994 GU N.288 10/12/1994 All1A+All1B+VDI3866 Blatt2:2001

* Test not accredited by ACCREDIA

° Test performed in subcontract to an external laboratory

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Legislative reference: D. lgs. 152/06, all. 5, parte IV Tab. 1/A

dott. Caterina Tassoni

Responsabile Prove Chimiche Ordine Chimici
Calabria n° 634

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**Analytical report N° 2808
of 03/05/2023**

Spett.le TECHFEM SPA

VIA TONIOLO, 1/D
61032 FANO (PU)

Sampling data

Sampling Method -
Samples took by customer, taken by our staff
Sampling: Place, date and hour : -
Received sample date 24/03/2023
Start analyses date 24/03/2023 Finished analyses date 03/05/2023

Sample n° : **2847/ 1170 Soil: TP47 (da 1,00 a 1,60)**

parameter researched	Unit of Measure	value	MDL	Reference min	Limit max	Method of analysis
Skeleton (> 2mm e < 2cm)	%	39		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
fine powder (<2mm)	%	61		--	--	DM 13/09/1999 SO n. 185 GU n.248 del 21/10/1999 Metodo II.1
Polycyclic aromatic hydrocarbons		-		--	--	
Dibenzo(a,h)anthracene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)anthracene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(a)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(b)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(g,h,i)perylene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(k)fluoranthene	mg/kg s.s.	nr	0,05	--	0,5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Crysene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Pyrene	mg/kg s.s.	nr	0,5	--	5	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Indeno(1,2,3-cd)pyrene	mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,l)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,i)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Dibenzo(a,e)pyrene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Benzo(e)pyrene	* mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018

parameter researched	Unit of Measure	value	MDL	Reference Limit		Method of analysis
				min	max	
Nafthalene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Acenafthylene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Fenanthrene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Anthracene	mg/kg s.s.	nr	0,01	--	--	EPA 3550C 2007+EPA3630C 1996+ EPA 8270E 2018
Chloride	° mg/kg s.s.	205		--	--	IRSA-CNR Q64 N. 14
Total Organic Carbon	* mg/kg s.s.	10500		--	--	DM 13/09/99 GU 248 21/10/99 e smi Met. VII.3
Sulphate	mg/kg s.s.	137		--	--	IRSA-CNR Q64 N. 14
PCB 101	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 118	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 138	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 153	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 180	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 28	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
PCB 52	* mg/kg s.s.	nr	0,0001	--	--	IRSA-CNR Q64 Vol. 3 Met. 24a+EPA 8270E 2018
BTEX	* mg/kg s.s.	-		--	--	
Benzene	* mg/kg s.s.	nr	0,01	--	0,1	EPA 5021A 2014 + EPA 8260D 2018
Ethylbenzene	* mg/kg s.s.	nr	0,01	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Styrene	* mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Toluene	* mg/kg s.s.	nr	0,05	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
o,m,p xylene	* mg/kg s.s.	nr	0,001	--	0,5	EPA 5021A 2014 + EPA 8260D 2018
Hydrocarbons C>12	mg/kg s.s.	52	4	--	50	UNI EN ISO 16703:2011
Tributyltin compounds	° * mg/kg s.s.	nr	1	--	1	UNI EN ISO 23161:2011
Metals		-		--	--	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009

parameter researched	Unit of Measure	value	MDL	Reference Limit min	Reference Limit max	Method of analysis
Arsenic	mg/kg s.s.	2,4	0,08	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cadmium	mg/kg s.s.	0,36	0,02	--	2	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Cobalt	mg/kg s.s.	2,5	0,02	--	20	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Chrome	mg/kg s.s.	18,8	0,03	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Mercury	* mg/kg s.s.	nr	0,1	--	1	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Nickel	mg/kg s.s.	9,4	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Lead	mg/kg s.s.	34	0,07	--	100	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Copper	mg/kg s.s.	17,7	0,04	--	120	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Zinc	mg/kg s.s.	63	0,2	--	150	DM 13/09/1999 SO GU n°185 GU n 248 21/10/1999 Met XI.1+UNI EN ISO 11885:2009
Asbestos	* mg/kg s.s.	<1000		--	1000	DM 06/09/1994 GU N.288 10/12/1994 All1A+All1B+VDI3866 Blatt2:2001

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Legislative reference: D. lgs. 152/06, all. 5, parte IV Tab. 1/A

dott. Caterina Tassoni

Responsabile Prove Chimiche Ordine Chimici
Calabria n° 634

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