

Institute of Public Health in Ostrava
Centre of Hygienic Laboratories
 Partyzánské nám stí 2633/7, Moravská Ostrava, 702 00 Ostrava

TEST REPORT No. 5744/2024

Customer : Riedl Inge
 Wachtelweg 10
 830 52 Bruckmühl

Set No. : 3685
Sample Received : 8.2.2024 15:20
Sample Analyzed : 8.2.2024 - 13.2.2024
Ref. No. : ZU/03257/2024
File No. : S-ZU/03257/2024
File code : 2.0.4

Sample information	
Sample No.:	13065
Sampling date:	not mentioned Sampling time: not mentioned
Sample name:	Proben 1 - Magnesium
Sample Type:	colloids
Sampled by:	customer
Mode of sampling:	not mentioned
Purpose:	analyses

Results - chemical analysis					
Parameter	Value	Unit	Type	Method used	Uncertainty
magnesium	3,22	mg/l	N	SOP OV 201 ¹	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information	
Sample No.:	13066
Sampling date:	not mentioned Sampling time: not mentioned
Sample name:	Proben 14 - Magnesium
Sample Type:	colloids
Sampled by:	customer
Mode of sampling:	not mentioned
Purpose:	analyses

Results - chemical analysis					
Parameter	Value	Unit	Type	Method used	Uncertainty
magnesium	3,61	mg/l	N	SOP OV 201 ¹	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information	
Sample No.:	13067
Sampling date:	not mentioned Sampling time: not mentioned
Sample name:	Proben 2 - Silizium
Sample Type:	colloids
Sampled by:	customer
Mode of sampling:	not mentioned
Purpose:	analyses

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
silicon	0,402	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13068				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 15 - Silizium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
silicon	0,917	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13069				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 28 - Silizium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
silicon	11,9	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13070				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 3 - Kupfer				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
copper	0,356	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13071				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 16 - Kupfer				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
copper	0,676	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13074				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 4 - Tantal				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
tantal	<0,0010	mg/l	N	SOP OV 201	-

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13075				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 17 - Tantal				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
tantal	<0,0010	mg/l	N	SOP OV 201	-

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13076				
Sampling date:	not mentioned			Sampling time: not mentioned	
Sample name:	Proben 5 - Zink				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
zinc	4,15	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13077				
Sampling date:	not mentioned			Sampling time: not mentioned	
Sample name:	Proben 18 - Zink				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
zinc	3,34	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13078				
Sampling date:	not mentioned			Sampling time: not mentioned	
Sample name:	Proben 6 - Molybdän				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
molybdenum	4,28	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13079				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 19 - Molybdän				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
molybdenum	26,2	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13080				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 31 - Molybdän				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
molybdenum	24,1	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13081				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 7 - Aluminium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
aluminium	0,884	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13082				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 20 - Aluminium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
aluminium	1,77	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13083				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 8 - Silber				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
silver	11,3	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13084				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 21 - Silber				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
silver	23,9	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13085				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 27 - Silber				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
silver	20,6	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13086				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 9 - Chrom				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
chromium	5,82	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13087				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 22 - Chrom				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
chromium	15,8	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13088				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 32 - Chrom				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
chromium	19,6	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13089				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 10 - Germanium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
germanium	18	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13090				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 23 - Germanium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
germanium	24	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13091				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 30 - Germanium				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
germanium	60	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13092				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 11 - Eisen				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
iron	0,741	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13093				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 24 - Eisen				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
iron	1,43	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13094				
Sampling date:	not mentioned			Sampling time: not mentioned	
Sample name:	Proben 12 - Gold				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
gold	0,0156	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13095				
Sampling date:	not mentioned			Sampling time: not mentioned	
Sample name:	Proben 25 - Gold				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
gold	0,0630	mg/l	N	SOP OV 201	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13096				
Sampling date:	not mentioned			Sampling time: not mentioned	
Sample name:	Proben 29 - Gold				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
gold	4,78	mg/l	N	SOP OV 201 ¹	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13097				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 13 - Bor				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
boron	0,874	mg/l	N	SOP OV 201 ¹	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Sample information

Sample No.:	13098				
Sampling date:	not mentioned		Sampling time:	not mentioned	
Sample name:	Proben 26 - Bor				
Sample Type:	colloids				
Sampled by:	customer				
Mode of sampling:	not mentioned				
Purpose:	analyses				

Results - chemical analysis

Parameter	Value	Unit	Type	Method used	Uncertainty
boron	1,45	mg/l	N	SOP OV 201 ¹	20%

Notice to sampling: The sampling itself is not a subject of accreditation.

Method specification :

SOP OV 201 (SN EN ISO 17294-1, SN EN ISO 17294-2)

Laboratory workplace:

¹⁾ - analyses performed at Ostrava (Partyzánské nám stí 2633/7, Moravská Ostrava, 702 00 Ostrava)

Methods in TYPE column: "N" out of the scope of accreditation

< the result is below the quantification limit, > the result is higher than the value presented

Results deal with tested samples only.

If the laboratory is not responsible for the sampling phase, the results refer to the sample as received.

Without a written consent of the laboratory, this Report can be reproduced only complete.

These expanded uncertainties of measurement are obtained by multiplying of standard uncertainty of measurement by extending coefficient $k=2$ (for confidence level 95%). Uncertainty of sampling not included.

If the sampling is not subject to accreditation, information about the sample, except the sample number, was provided by the customer and the laboratory is not responsible for this information.

Checked by: Buchta Petr Mgr.

Completed by: Buchta Petr Mgr.

Number of pages: 12

Date: 15.2.2024

Mgr. Martina Chmelová
Quality Manager of Hygienic Laboratories Center

Zdravotní ústav se sídlem v Ostravě
Centrum hygienických laboratoří
Partyzánské náměstí 2633/7
Moravská Ostrava 70200 Ostrava 2

End of protocol
