

**Aquanet Laboratorium Sp. z o.o.**

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Subject of the order/Order purpose	Client	Client's order number
Sampling and analysis of drinking water. Legally regulated area: (Journal of Laws 2017, item 2294) - within the established scope.	Amii Sp. z o.o. Techniczna 22 92-518 Łódź	Dated 04.09.2024

**GENERAL INFORMATION**

Sample No.	Sample Identification/Collection Location	Sample Condition Upon Receipt	Sample Collection Date	Sample Delivery Date to Laboratory	Test Start Date	Test Completion Date
24/37959/P	Cold water sample - 13A after Newline CTO-HF cartridges	no remarks	06.09.2024	06.09.2024	06.09.2024	16.09.2024

Method of Sample Collection:

Samples were collected by the laboratory. PN-ISO 5667-5:2017-10 (A)

Sample Collector: Mielczarek Karolina

**TEST RESULTS**

Parameter	Method	Designation Unit	*Reference Value	Results with uncertainty Sample No. 24/37971/P
pH	PN-EN ISO 10523:2012	-	6.5-9.5	7.9 ±0.1
Flavor Threshold Flavor Number (TFN)	PN-EN 1622:2006 Simplified method, even, unforced selection, temperature of testing 23±2°C, t - sample storage time	-	Accepted by consumers and without abnormal changes	1 acceptable, t [h]: 72
Total hardness (total concentration of Ca and Mg)	PB/PCh-51 ed. 1 of 17.05.2021	mg CaCO <sub>3</sub> /l	Recommended 60-500	200 ±13%
Odor Threshold Odor Number (TON)	PN-EN 1622:2006 Simplified method, even, unforced selection, temperature of testing 23±2°C, t - sample storage time	-	Accepted by consumers and without abnormal changes	1 acceptable, t [h]: 2
Turbidity	PN-EN ISO 7027-1:2016-09	NTU	Acceptable by consumers and without abnormal changes. Recommended value range up to 1.0 NTU.	0,48 ±25%
Color	PN-EN ISO 7887:2012+Ap1:2015-06; Method D.	mg Pt/l	Acceptable by consumers and without abnormal changes. Recommended value range up to 15 mg Pt/l.	<2,5 ±2,5 mgPt/l

\* Pursuant to the Regulation of the Minister of Health of 7 December 2017 (Journal of Laws of 2017, item 2294) on the quality requirements for water intended for human consumption.

## Description of applied abbreviations:

- Research methods marked with the symbol (A) - accredited methods. Accreditation number of the Laboratory granted by the Polish Centre for Accreditation: AB 700. The scope of accreditation is available on the PCA website and on the Aquanet Laboratory Sp. z o.o. website.
- Research methods marked with the symbol (P) - approved by the relevant PPIS, number: HK-JW.9011.226.2024.MM dated 11.06.2024.
- Research methods marked with the symbol (N) - non-accredited methods.
- Research methods marked with the symbol (NR) - alternative methods for research methods specified in legal regulations, Aquanet Laboratory Sp. z o.o. has evidence of obtaining equivalent results.
- Research methods marked with the symbol (W) - methods performed according to standards withdrawn by the Polish Committee for Standardization. These methods are appropriate for the intended use.
- Test results presented as a measurement value exceeding the accredited scope of the method have been highlighted and presented in brackets. This value is information about the test result.
- Tests presented in italics were performed in a laboratory with accreditation and/or PPIS approval listed on the subcontractors list of Aquanet Laboratory Sp. z o.o. The laboratory code and/or PPIS approval number has been referenced in the table with test results in the Research Method column.

## Remarks (if applicable):

1. The results refer only to the sample taken.
2. The client and third party have the right to file a complaint.
3. Without the written consent of the Laboratory, the report cannot be duplicated except in its entirety.
4. The uncertainty of the result for samples taken by the laboratory includes the uncertainty of the research method and the uncertainty of sampling and is expressed as expanded uncertainty for a 95% confidence interval and  $k=2$ . For microbiological tests, the presented expanded measurement uncertainty has been estimated in accordance with ISO 19036 and is based on the standard uncertainty multiplied by the expansion factor  $k=2$ , ensuring a confidence level of approximately 95%. The combined standard uncertainty was considered equal to the standard deviation of intra-laboratory reproducibility. The uncertainty does not include the uncertainty associated with data provided by the Client.
5. The test result obtained by the Laboratory exceeding the scope of application of the accredited method according to AB 700, in the form of a record "< lower limit of the measurement range" or "> upper limit of the measurement range" is given together with the expanded uncertainty for the lower or upper limit of the measurement range, respectively. Does not apply to biological tests.
6. In the case of determining compliance with requirements/specifications, the method of presenting results described in point 5 is reported as part of the opinion and interpretation.
7. For tested samples where the final result is the sum of the determined components, in the case where one of the obtained component values is outside the lower limit of the application of the accredited method according to AB 700, it is assumed to be equal to "0". If all components of the sum are below the lower limit of the application of the accredited method according to AB 700, the test report will show the sum as the lower limit of the application of the method for the lowest component in the form of a record "< lower limit of the measurement range". The decision-making body, when making the final decision, may apply a different decision rule than the one presented above.
8. Data provided by the client that may affect the validity of the results are included in the report in the fields: Order Subject/Order Purpose, Client, Client Order Number, Sample Identification/Sample Collection Location, Date and time of sample collection declared by the client (if applicable), Identification of the sample collection method, Samples collected by (if applicable). The above data has been provided by the Client or their representative and confirmed by signature. Aquanet Laboratory Sp. z o.o. is not responsible for data/information provided by the client.

dition 10 dated 02.05.2024 .laboratorium Sp. z o.o., 61-492 l. Dolna Wilda 126 District Court Poznań – New Town and Wilda in Poznań, VIII Economic Division of the National Court Register KRS no. 0000470208, NIP 783 16 98 679, REGON 302402124, Share capital 4,631,900 PLN (fully paid)		  AB 700
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Subject of the order/Order purpose	Client	Client's order number
Sampling and analysis of drinking water. Legally regulated area: (Journal of Laws 2017, item 2294) - within the established scope.	Amii Sp. z o.o. Techniczna 22 92-518 Łódź	Dated 04.09.2024

### GENERAL INFORMATION

Sample No.	Sample Identification/Location of Sample Collection	Sample Condition Upon Receipt	Sample Collection Date	Sample Delivery Date to Laboratory	Test Start Date	Test Completion Date
24/37960/P	13B after Newline CTO-HF cartridges. Cold water sample.	No remarks	06.09.2024	06.09.2024	06.09.2024	25.09.2024

Method of Sample Collection:

Samples were collected by the laboratory. PN-ISO 5667-5:2017-10 (A)

Sample Collector: Mielczarek Karolina

### TEST RESULTS

Parameter	Method	Unit	Reference Value	Sample No.
				24/37972/P
Cyanides total	A P PN-EN ISO 14403-2:2012	mg/l	0.050	<0.005 ±28%
Antimony	A P PN-EN ISO 17294-2:2024-04	mg/l	0.005	<0.0010 ±19%
Arsenic	A P PN-EN ISO 17294-2:2024-04	mg/l	0.010	<0.0010 ±19%
Chromium	A P PN-EN ISO 17294-2:2024-04	mg/l	0.050	<0.0010 ±13%
Aluminum	A P PN-EN ISO 17294-2:2024-04	mg/l	0.200	<0.0050 ±22%
Cadmium	A P PN-EN ISO 17294-2:2024-04	mg/l	0.005	<0.00020 ±19%
Manganese	A P PN-EN ISO 17294-2:2024-04	mg/l	0.050	0.0074 ±12%
Nickel	A P PN-EN ISO 17294-2:2024-04	mg/l	0.020	<0.0020 ±14%
Lead	A P PN-EN ISO 17294-2:2024-04	mg/l	0.010	<0.0010 ±17%
Mercury	A P PN-EN ISO 17294-2:2024-04	mg/l	0.001	<0.00010 ±51%
Selenium	A P PN-EN ISO 17294-2:2024-04	mg/l	0.010	<0.0010 ±32%
Sodium	A P PN-EN ISO 17294-2:2024-04	mg/l	200	7.7 ±11%

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### TEST RESULTS

Parameter	Designation	Method	Unit	Reference Value	Results with uncertainty
					Sample No.
Total Phosphorus	A	PN-EN ISO 11885:2009	mg/l	-	24/37960/P 0.084 ±23%
P <sub>2</sub> O <sub>5</sub> (calculated)	A	PN-EN ISO 11885:2009 (przelicznik: wynik badania fosfor x 2,291)	mg/l	-	0.19 ±23%
Total Organic Carbon (TOC)	A P	PN-EN 1484:1999	mg/l	No irregular changes	0.38 ±10%
Phenolic Index	A	PN-ISO 6439:1994	mg/l	-	<0.005 ±30%
Styrene	A	PN-EN ISO 15680:2008	µg/l	-	<2.0 ±45%
Benzo(a)pyrene	A P	PB/PCh-4 ed. 4 from 01.10.2018	µg/l	0.010	<0.003 ±40%
Total PAHs (calculated)	A P	PB/PCh-4 ed. 4 from 01.10.2018	µg/l	0.010	<0.005 ±63%
Epichlorohydrin	A P	PN-EN ISO 15680:2008/P&T-GC-MS. Kod laboratorium: AB 418 PPIS w Tychach decyzja nr NS-HK.9011.4.15.2023 111/NS/HK.23 z dnia 23.05.2023r.	µg/l	0.10	<0.030 ±0.006 µg/l

**\*According to the Regulation of the Minister of Health of December 7, 2017 (Journal of Laws 2017, item 2294) on the requirements for water intended for human consumption.**

Description of the used abbreviations:

- Testing methods marked with the symbol (A) – accredited methods. The accreditation number of the laboratory issued by the Polish Centre for Accreditation: AB 700. The scope of accreditation is available on the PCA website and the Aquanet Laboratory Sp. z o.o. website.
- Testing methods marked with the symbol (P) – methods approved by the relevant PPIS, number: HK-JW.9011.226.2024.MM dated 11.06.2024.
- Testing methods marked with the symbol (N) – non-accredited methods.
- Testing methods marked with the symbol (NR) – alternative methods for those indicated in legal regulations. Aquanet Laboratory Sp. z o.o. has evidence of the equivalence of the results.
- Testing methods marked with the symbol (W) – methods performed according to standards withdrawn by the Polish Committee for Standardization. These methods are suitable for the intended application.
- Results presented as measurements exceeding the accredited range of the method are highlighted and presented in parentheses. This value is informational regarding the test result.
- Tests presented in italics were carried out in a laboratory that has accreditation and/or approval from PPIS and is listed as a subcontractor of Aquanet Laboratory Sp. z o.o. The laboratory code and/or the PPIS approval number is mentioned in the table of test results in the "Testing Method" column.

**Notes (if applicable):**

1. The results refer exclusively to the sample taken.
2. The client and third parties have the right to file a complaint.
3. The report cannot be reproduced in any way other than in full without the laboratory's written consent.
4. The uncertainty of the result for samples taken by the laboratory includes the uncertainty of the testing method and the uncertainty of sample collection and is expressed as expanded uncertainty for a confidence interval of 95% and k=2. For microbiological tests, the expanded uncertainty of measurement is estimated according to ISO 19036 and is based on the standard uncertainty multiplied by the expansion factor k=2, ensuring a confidence level of about 95%. The combined standard uncertainty is considered to be equal to the standard deviation of intra-laboratory reproducibility. The uncertainty does not include uncertainty related to data provided by the client.
5. The result obtained by the laboratory exceeding the scope of the accredited method according to AB 700, in the form of a record "< lower measurement range value" or "> upper measurement range value" is provided along with the expanded uncertainty for the lower or upper measurement range value accordingly. This does not apply to biological tests.
6. In case of compliance with the requirements/specifications, the method of presenting the results described in item 5 is reported as part of the opinion and interpretation.

7. For tested samples where the final result is the sum of the measured components, if any of the obtained component values is below the lower measurement range of the accredited method according to AB 700, it is assumed to be equal to "0". If all components of the sum are below the lower measurement range of the accredited method according to AB 700, the sum will be reported as the lower measurement

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range value for the lowest component in the form of the record "< lower measurement range value". The deciding authority may apply a different decision rule than the one presented above.

8. Data provided by the client that may affect the validity of the results are listed in the report in the fields: Subject of the order/Order purpose, Client, Client's order number, Sample identification/Sample collection location, Date and time of sample collection as declared by the client (if applicable), Sample collection method identification, Sample collected by (if applicable). The above data were provided by

the client or their representative and confirmed by signature. Aquanet Laboratory Sp. z o.o. is not responsible for data/information provided by the client.

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**End of Report**

Report prepared on: 25.09.2024

Authorized by:

Grygier Katarzyna - Deputy Head of the Laboratory; Laboratory: - Physicochemical - PFO

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