



ANALYSIS ORDER
TO BE FILLED OUT BY THE CLIENT

| | |
|---|--|
| Client: | |
| Invoice details: | |
| Contact: | |
| Sample delivery method: <input checked="" type="checkbox"/> In person <input type="checkbox"/> Shipment <input type="checkbox"/> | |
| FORM OF DELIVERY OF THE REPORT (number of copies): <input checked="" type="checkbox"/> Personal collection, <input type="checkbox"/> By registered mail, <input type="checkbox"/> By e-mail, <input type="checkbox"/> By fax | |
| Aim of analyses: <input type="checkbox"/> Technological sample, <input type="checkbox"/> The fulfillment of legal requirements, <input type="checkbox"/> Other | |
| Scope of performed tests (Attachment on page 3) | |
| Price of the test in accordance with the current price list or price offer. | |

1. The size of the sample depends on the type and scope of research.
 2. Client has the right to participate in the research as an observer.
 3. Statement of compliance with the specifications and requirements:
 Without compliance
 Confirmation of compliance of the obtained results with the specification or requirements*
- The principle of making decisions
- Simple acceptance - The uncertainty of measurements is taken into account in accordance with ILAC-G8: 09/2019 point 4.2.1. The statement of compliance is taken into account at the 95% confidence level and the coverage factor k = 2.
- ILAC-G8: 09/2019 "Guidelines for demonstrating compliance with the specifications" Measurement uncertainty is taken into account when assessing results. If the measurement result increased by the uncertainty of measurement is below the limit specified in the specification or requirement, compliance with the requirement shall be stated. If the measurement result minus the measurement uncertainty is above the limit specified in the specification or requirement, compliance with the requirement shall be stated. If the measurement result increased or decreased by the measurement uncertainty overlaps the boundary given in the specification or requirement, it is not possible to state compliance or non-compliance with the requirement.
4. Measurement uncertainty is given every time.
 5. Client has the right to submit a written complaint within two weeks from the date of issue of the test report.
 6. I accept the research methods used in the Laboratory - given in the attachment to the order. (p. 3)
 7. In the event of a deviation from this order, client will be informed about it before continuing the examination. In this case, the Client decides to accept the derogation.
 8. Laboratory guarantees full impartiality of performed tests.
 9. Laboratory guarantees that the tests are carried out in accordance with applicable standards.
 10. Laboratory ensures confidentiality of all information related to tests.

* provide specification number or requirement

Signature and date Customer

Signature and date (Laboratory)



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SAMPLE IDENTIFICATION (TO BE FILLED OUT BY THE CLIENT)

**** To be completed in case of analysis parameters are not listed in Annex No 1**



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ANNEX NO 1. List of tested parameters, test codes

| Test parameters | Test code | Analysis no. | Analysis parameters | Status method |
|--|-----------|--------------|---|---------------|
| Basic water parameters | PW | 1 | Conductivity Range: 25 – 10 000 µS/cm Conductivity method; PN-EN 27888:1999 | A |
| | | 2 | Total hardness Range: 3,5-20 °dH Spectrophotometric method, HACH LCK Nr 327, edition 1 z 07/2019 | A |
| | | | Total hardness Range: 2,8 – 3,5 °dH Spectrophotometric method, HACH LCK Nr 327, edition 1 z 07/2019 | Q |
| | | 3 | Chlorides Range: 3 - 1000 mg/l Spectrophotometric method HACH LCK Nr 311, edition 3 z 04/2022 | A |
| | | 4 | Iron Range: 0,45 – 6,0 mg/l Fe ^{2+/3+/tot.} Spectrophotometric method, HACH LCK Nr 320, edition 1 z 07/2019 | A |
| | | | Iron Range: 0,35 – 0,45 mg/l Fe ^{2+/3+/tot.} Spectrophotometric method, HACH LCK Nr 320, edition 1 z 07/2019 | Q |
| | | 5 | Silica Range: 5 – 100 mg/l SiO ₂ Spectrophotometric method, HACH Nr 8185, edition 9 z 01/2014 | A |
| | | 6 | Manganese Range: 0,008 – 0,5 mg/l Mn Spectrophotometric method, HACH LCW Nr 532, edition 1 z 03/2020 | A |
| | | 7 | Alkalinity P Range 10- 500 mg/l CaCO ₃ Photometric method , Palintest No38 V3 -05/07 | Q |
| | | 8 | Alkalinity M Range 50- 500 mg/l CaCO ₃ Photometric method , Palintest No37 V3 -05/07 | Q |
| | | 9 | Determination pH Range: 2.0 – 14.0 Potentiometric method PN-EN ISO 10523:2012 | Q |
| | | 10 | Residual hardness Range: 0,02-6 °Dh Spectrophotometric method,, HACH LCK Nr 427, edition 1 z 07/2019 | Q |
| | | 11 | Magnesium Range: 3 – 50 mg/l Mg Spectrophotometric method, HACH LCK Nr 327, edition 1 z 07/2019 | Q |
| | | 12 | Calcium Range: 5 – 100 mg/l Ca Spectrophotometric method, HACH LCK Nr 327, edition 1 z 07/2019 | Q |
| | | 13 | Phosphate Range: 0,05-1,5 mg/L PO ₄ -P Spectrophotometric method HACH LCK Nr 349, edition 1 z 03/ 2019 | Q |
| | | 14 | Nitrate Range: 0 - 11 mg/l NO ₃ Photometric method , PrimeLab Nr 34 | Q |
| | | 15 | Nitrite Range :0 - 0.5 mg/l NO ₂ Photometric method ,PrimeLab Nr 35 | Q |
| | | 16 | Sulphate Range: 0 – 200 mg/l SO ₄ ²⁻ Photometric method, Palintest Nr 32, V1-10/05 | Q |
| | | 17 | Sulphite Range: 0 – 500 mg/l Na ₂ SO ₃ Photometric method, Palintest Nr 34, V1-10/05 | - |
| | | 28 | Chlorine dioxide Range: 0 – 9.5 mg/l ClO ₂ Photometric method Palintest Nr7.3, V4-12/11 | - |
| | | 19 | Polyacrylates Range: 1 - 30 mg/l Photometric method PrimeLab Nr 85, | - |
| | | 20 | Organophosphonate Range: 0 – 20 mg/l PO ₄ Photometric method, Palintest Nr 44, V1-10/05 | - |
| | | 21 | Free Chlorine Range: 0 – 5.0 mg/l Photometric method Palintest Nr 7, V1-10/05 | - |
| | | 22 | Turbidity Range 0,02 - 1000 NTU Photometric method PrimeLab Nr 112 | Q |
| | | 23 | Colour Range 10 – 500 mg/l Pt Photometric method Palintest Nr 47 V1-10/05 | - |
| | | 24 | Ammonium ion Range: 0-1 mg/l Photometric method , Primelab No2 | - |
| | | 25 | Calcium hardness Range: 0 – 500 mg/l CaCO ₃ Photometric method, Palintest Nr 12, V1-10/05 | - |
| | | 26 | Molybdate Range: 0 – 20 mg/l MoO ₄ Photometric method, Palintest Nr 42, V2- 09/11 | - |
| | | 27 | Molybdate Range: 0 – 100 mg/l MoO ₄ Photometric method, Palintest Nr 22,V1-10/05 | - |
| | | 28 | Iron Range: 0,005 – 0,250 mg/l Fe Spectrophotometric method, HACH LCW Nr 021, edition 3 z 03/2022 | Q |
| | | 29 | Suspended solids Range: 2-1000 mg/l Method: filtration / PN-EN 872:2007 | Q |
| Analysis of elements in industrial and raw water | IW | | Element concentration Range: Ag, Al, Ba, Cr, Mn, Ni, Pb, Zn (0,1 – 50) mg/l Fe, Mg, P (0,1 – 1000) mg/l Ca (0,2 – 1500) mg/l | A |



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| | | Cd (0,2 – 50) mg/l Cu (0,1 – 2500) mg/l K (1 – 1000) mg/l Na (1 – 1500) mg/l S (1 – 100) mg/l Si (0,2 – 1000) mg/l Inductively Coupled Plasma -Optical Emission Spectrometry Method (ICP-OES) PN-EN ISO 11885: 2009 | |
| Analysis of TOC for industrial and raw water | TW | Content Total carbon (TC) Range: (0,5 – 1000) mg/l Content Total inorganic carbon (TIC) Range: (0,5 – 1000) mg/l Content Total organic carbon (TOC) (from calculations) Infrared spectroscopy method PN EN 1484:1997 | Q |
| Analysis of TOC in deposit boiler scale | TO | Content Total carbon (TC) Range: (0,50 – 50) % Content Total inorganic carbon (TIC) Range: (0,5 – 50)% Content Total organic carbon (TOC) (from calculations) Infrared spectroscopy method PN EN 15936 :2013 -02 | Q |
| Analysis of elements in deposit boiler scale | IO | Element concentration Range: Al, Ba, Pb (50 – 1500) mg/kg Cr, Cu, Mn (50– 3500) mg/kg Ca (30 – 400 000) mg/kg Cd (50 – 200) mg/kg Fe (210 - 650 000) mg/kg K (70 – 35 000) mg/kg Mg (50 – 200 000) mg/kg Na (80 – 400 000) mg/kg Ni (50 – 2500) mg/kg P (50 – 110 000) mg/kg S (100 - 150 000) mg/kg Si (100 - 10 000) mg/kg Zn (50 - 10 000) mg/kg Inductively Coupled Plasma -Optical Emission Spectrometry Method (ICP-OES) PN-EN 16170:2017-02 excluding point 7.1, EPA 3051 A rev. 01/2007 | A |
| | | Element concentration Range: Al (1500 – 250000) mg/kg Inductively Coupled Plasma -Optical Emission Spectrometry Method (ICP-OES) PN-EN 16170:2017-02 excluding point 7.1, EPA 3051 A rev. 01/2007 | Q |
| Resin | R | Iron ions in ion-exchange resins mg/l IRON EXCHANGE RESIN FOULING TEST KIT RTK 001 | - |
| Analysis of volatile compounds | GC | Gas chromatography method GC - BID | - |

A - accredited method, Q - method covered by the management system,