

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14115-02-10 according to DIN EN ISO/IEC 17025:2018

Valid from: **20.09.2022**

Date of issue: 19.12.2022

Holder of certificate:

SGS Institut Fresenius GmbH

at the locations

**Königsbrücker Landstraße 161, 01109 Dresden (microelectronic laboratories / chemical laboratory)
c/o Onsite X-Fab, Grenzstraße 28, 01109 Dresden (semiconductor failure analysis laboratory)
Hauptstraße 105, 04416 Markkleeberg**

Tests in the fields:

Selected physical, physico-chemical and chemical analysis of water (groundwater, running waters, barrages and lakes) and waste water;

Selected chemical analysis in accordance with the German Drinking Water Ordinance, sampling of raw and drinking water;

Selected analysis of commodity goods;

Selected analysis of soil, dust and wood;

Analysis of soil gas;

Sampling for microbiological analysis of industrial water in accordance with Section 3 (8)

42nd BImSchV;

Determination (sampling and analysis) of organic gaseous air pollutants in indoor and test chamber analysis;

Analysis of organic gaseous air pollutants in workplace measurements;

Determination (sampling and analysis) of fibrous particles indoors, analysis of measuring filters or solids for inorganic fibrous particles;

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex reflects the status as indicated by the date of issue.

The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/content/accredited-bodies-dakks>.

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

**Selected mechanical-technological tests of steels as well as X-ray diffractometric and thermogravimetric analysis of materials;
Selected materialographic analysis;
Surface, thin-film and microanalytical analysis of materials using photoelectron spectrometry (XPS) and electron probe microanalysis (EPMA);
Dot and profile measurement of semiconductor materials using spreading resistance profiling (SRP) and secondary ion mass spectrometry (SIMS);
Determination of material parameters of plastics by thermal analysis;
Selected tests of semiconductor products using scanning electron microscopy;
Specialist module for water**

For the test areas marked with *, the testing laboratory is permitted to freely select standard test methods or equivalent methods without obtaining prior notification and consent from DAkkS.

The test methods listed are given by way of example.

In sections 1 to 18, the testing laboratory is permitted to apply the listed standardised and equivalent test methods with different versions of the standards without obtaining prior notification and consent from DAkkS.

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation.

The identifiers after the testing and sampling methods indicate the location for which competence is confirmed:

DD = Dresden/ Königsbrücker Landstraße 161
ZMD = Dresden/ Grenzstraße 28
MKB = Markkleeberg

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1 Selected analysis of water (groundwater, running waters, barrages and lakes) and waste water

1.1 Sampling

ISO 5667-11 2009-04	Water quality - Sampling - Part 11: Guidance on sampling of groundwaters	MKB
DIN EN ISO 5667-1 (A 4) 2007-04	Water quality - Sampling - Part 1: Guidance on the design of sampling programmes and sampling techniques	DD MKB
DIN 38402-A 12 1985-06	Sampling from barrages and lakes	MKB
DIN 38402-A 13 1985-12	Sampling from aquifers	DD MKB

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DIN ISO 5667-5 (A 14) 2011-02	Water quality - Guidance on sampling of drinking water from treatment works and piped distribution systems	DD MKB
DIN 38402-A 15 2010-04	Sampling from running waters	DD MKB
DIN EN ISO 5667-3 (A 21) 2013-03	Water quality - Sampling - Part 3: Guidance on the preservation and handling of water samples	DD MKB
DIN 38402-A 30 1998-07	Homogenisation of samples	MKB
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological analysis	DD
DVWK 128 1992	Scope of sampling and examination of groundwater samples	MKB

1.2 Flavour and aroma

DEV B 1/2 1971-01	Test for odour and flavour	MKB
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1.3 Physical and physico-chemical parameters

DIN EN ISO 7887 (C 1) 2012-04	Water quality - Examination and determination of colour (only method A - visual inspection)	DD MKB
DIN 38404-C 4 1976-12	Determination of temperature	DD MKB
DIN EN ISO 10523 (C 5) 2012-04	Water quality - Determination of pH	DD MKB
DIN 38404-C 6 1984-05	Determination of the oxidation reduction (redox) potential	DD MKB
DIN EN 27888 (C 8) 1993-11	Water quality - Determination of electrical conductivity	DD MKB

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1.4 Jointly determinable substance groups

DIN 38407-F 9 1991-05	Determination of benzene and some of its derivatives by gas chromatography (Supplement: <i>Additional determination of aliphatics (C₁ bis C₄) in conjunction with SOP M 2512</i>)	DD
DIN 38407-F 17 1999-02	Determination of selected nitroaromatic compounds by gas-liquid chromatography (Modification: <i>Solid phase material analogue to DIN 38407-F 21, polystyrene-divinylbenzene instead of RP C18, SOP M 593</i>)	DD
DIN EN ISO 15913 (F 20) 2003-05	Water quality - Determination of selected phenoxyalkanoic herbicides, including bentazones and hydroxybenzotrioles by gas chromatography and mass spectrometry after solid phase extraction and derivatisation	DD
DIN EN ISO 22478 (F 21) 2006-07	Water quality - Determination of selected explosives and related compounds - Method using high performance liquid chromatography (HPLC) with UV detection (Modification: <i>If required, parallel extract preparation for HPLC and GC/ECD, SOP M 593</i>)	DD
DIN 38407-F 43 2014-10	Determination of selected easily volatile organic compounds in water - Method using gas chromatography and mass spectrometry by static headspace technique	DD
In-house method SOP M 2949 2013-01	Analysis of chlorobenzenes, organochlorine pesticides, nitrochloroaromatics, nitroaromatics, chloranilines and N- and P-pesticides in water by GC-MS	DD

1.5 Gaseous components

DIN EN ISO 5814 2013-02	Water quality - Determination of dissolved oxygen - Electrochemical probe method	MKB
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1.6 Summary indices of actions and substances

DIN EN ISO 9562 (H 14) 2005-02	Water quality - Determination of adsorbable organically bound halogens	DD
Blaudruck DEV H 25 1989	Determination of organically bound halogens amenable to purging (POX)	DD

2 Tests in accordance with the German Drinking Water Ordinance - TrinkwV - at the DD location

Sampling

Method	Title
DIN EN ISO 5667-1 (A 4) 2007-04	Water quality - Sampling - Part 1: Guidance on the design of sampling programmes and sampling techniques
DIN ISO 5667-5 (A 14) 2011-02	Water quality - Sampling - Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems
DIN EN ISO 5667-3 (A 21) 2013-03	Water quality - Sampling - Part 3: Preservation and handling of water samples
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological analysis
Recommendation of the Federal Environment Agency 18 December 2018	Assessment of the quality of drinking water with respect to the parameters lead, copper and nickel

ANNEX 1: MICROBIOLOGICAL PARAMETERS

PART I: General requirements for drinking water

Not used

PART II: Requirements for drinking water intended for transfer in sealed containers

Not used

ANNEX 2: CHEMICAL PARAMETERS

PART I: Chemical parameters whose concentration does not usually increase in the distribution network, including the drinking water installation

Not used

PART II: Chemical parameters whose concentration may increase in the distribution network, including the drinking water installation

Not used

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ANNEX 3: INDICATOR PARAMETERS

Part I: General indicator parameters

No.	Parameter	Method
1	Aluminium	Not used
2	Ammonium	Not used
3	Chloride	Not used
4	Clostridium perfringens (including spores)	Not used
5	Coliform bacteria	Not used
6	Iron	Not used
7	Colouring (spectral absorption coefficient Hg 436 nm)	Not used
8	Odour (as TON)	DIN EN 1622 (B 3) 2006-10 (Annex C)
9	Taste	DIN EN 1622 (B 3) 2006-10 (Annex C)
10	Colony count at 22 °C	Not used
11	Colony count at 36 °C	Not used
12	Electrical conductivity	DIN EN 27888 (C 8) 1993-11
13	Manganese	Not used
14	Sodium	Not used
15	Organically bound carbon (TOC)	Not used
16	Oxidisability	Not used
17	Sulphate	Not used
18	Turbidity	Not used
19	Hydrogen ion concentration	DIN EN ISO 10523 (C 5) 2012-04
20	Calcite dissolving capacity	Not used

Part II: Specific requirements for drinking water in systems in the drinking water installation

Not used

APPENDIX 3a: Requirements for drinking water with regard to radioactive substances

Not used

Parameters not included in Annexes 1 to 3 of the German Drinking Water Ordinance

Additional periodic testing

Not used

The accreditation does not replace the recognition or approval procedure of the competent authority pursuant to Section 15 (4) TrinkwV.

3 Sampling for microbiological analysis of industrial water in accordance with Section 3 (8) 42nd BImSchV at the DD location

Sampling

Method	Title
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological analysis
	Recommendation of the Federal Environmental Agency for the sampling and detection of Legionella in evaporative cooling plants, cooling towers and wet separators dated 06.03.2020, Sections C and D

Microbiological analyses

Not used

4 Sampling of waste

DIN EN 14899 2006-04	Characterization of waste - Sampling of waste materials - Framework for the preparation and application of a sampling plan	MKB
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5 Selected examination of soil gas, analysis only

VDI 3865 Blatt 3 1998-06	Measurement of organic soil pollutants - Gas-chromatographic determination of volatile organic compounds in soil gas adsorption at activated carbon and desorption with organic solvents	DD
In-house method SOP M 213 2008-11	GC-MS screening for volatile organic compounds	DD

6 Selected analysis of soil, waste, house dust and wood-based panels

DIN ISO 10382 2003-05	Soil quality - Determination of organochlorine pesticides and polychlorinated biphenyls - Gas chromatographic method with electron capture detection	DD
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DIN ISO 11916-1 2014-11	Soil quality - Determination of selected explosives - Part 1: Method using high-performance liquid chromatography (HPLC) with UV detection	DD
E DIN ISO 11916-2 2011-03	Soil quality - Determination of selected explosives - Part 2: Method using gas chromatography (GC) and electron capture detection (ECD) or mass spectrometric detection (MS)	DD
DIN EN 717-1 2005-01	Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde emission by the chamber method	DD
SOP M 3781 2019-10	Determination of pentachlorophenol and lindane in wood samples	DD

7 Determination of organic airborne pollutants (analysis only) in indoor air measurements

DIN ISO 12884 2000-12	Ambient air - Determination of total (gas and particle phase) polycyclic aromatic hydrocarbons - Collection on sorbent- backed filters with gas chromatographic/mass spectrometric analysis	DD
DIN ISO 16000-3 2013-01	Indoor air - Part 3: Measurement of formaldehyde and other carbonyl compounds - Sampling with a pump	DD
DIN ISO 16000-4 2012-11	Indoor air - Part 4: Determination of formaldehyde - Diffusive sampling method	DD
DIN ISO 16000-6 2012-11	Indoor air - Part 6: Determination of volatile organic compounds in indoor air test chamber air by active sampling on TENAX TA® sorbent, thermal desorption and gas chromatography with MS-FID (Extension: <i>Also for MVOC, in conjunction with SOP M 692</i>)	DD

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VDI 2100 Blatt 2 2010-11	Determination of gaseous compounds in ambient air - Determination of indoor air pollutants - Gas chromatographic determination of organic compounds - Active sampling by accumulation on activated charcoal - Solvent extraction (Supplement: <i>Additional determination of organosilicon compounds, MVOC and screening for VVOC, VOC and SVOC</i>)	DD
VDI 2100 Blatt 3 2011-10	Determination of gaseous compounds in ambient air - Determination of indoor air pollutants - Gas chromatographic determination of organic compounds - Active sampling by accumulation on adsorbents - Thermal desorption	DD
VDI 4301 Blatt 2 2000-06	Indoor air pollution measurement - Measurement of pentaclorphenol (PCP) and γ -hexachlorcyclohexane (lindane) - GC/MS-method	DD
VDI 4301 Blatt 3 2003-06	Indoor air pollution measurement - Measurement of pentaclorphenol (PCP) and γ -hexachlorcyclohexane (lindane) - GC/ECD-method	DD
ASTM D 4861 2011	Standard practice for sampling and selection of analytical technique for pesticides and polychlorinated Biphenyls in air, (in conjunction with SOP M 342)	DD
NIOSH 2546 1994	Cresol (all isomers) and phenol (Supplement: <i>Additional determination of alkylphenols</i>)	DD
NIOSH 5503 1994-08	Polychlorinated biphenyls (in conjunction with SOP M 342)	DD
OSHA 79 1990-01	2-Methoxyethanol (Methyl Cellosolve, 2ME) 2-Methoxyethyl Acetate (Methyl Cellosolve Acetate, 2MEA) 2-Ethoxyethanol (Cellosolve, 2EE) 2-Ethoxyethyl Acetate (Cellosolve Acetate, 2EEA)	DD

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8 Indoor and test chamber analysis

DIN ISO 16000-3 2013-01	Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and in test chambers - Pumped sampling	DD
DIN ISO 16000-6 2012-11	Indoor air - Part 6: Determination of volatile organic compounds in indoor air test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography with MS or MS-FID	DD
DIN EN ISO 16000-9 2008-04	Indoor air - Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method	DD
DIN EN ISO 16000-11 2006-06	Indoor air - Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens	DD
DIN EN 717-1 2005-01	Wood-based panels - Determination of formaldehyde release Part 1: Formaldehyde emission by the chamber method (Modification: <i>Determination of formaldehyde in accordance with DIN EN 16000-3</i>)	DD
RAL-UZ 38 2002-04	Award criteria for ecolabelling - Low-emission products made of wood and wood-based panels - Annex 2	DD
VDI 2100 Blatt 2 2010-11	Determination of gaseous compounds in ambient air - Determination of indoor air pollutants - Gas chromatographic determination of organic compounds - Active sampling by enrichment on activated carbon - Solvent extraction	DD
DIN EN 16516 2018-01	Construction products - Assessment of release of dangerous substances - Determination of emissions into indoor air	DD

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9 Determination (analysis only) of organic airborne pollutants in workplace measurements

DIN EN ISO 16017-1 2001-10	Indoor, ambient and workplace air - Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography - Part 1: Sampling with a pump	DD
DIN EN ISO 16017-2 2003-09	Indoor, ambient and workplace air - Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography - Part 2: Diffusive sampling	DD
BGIA 6045 1989	Aldehydes	DD
NIOSH 1003 2003	Hydrocarbenes, halogenated	DD
NIOSH 1300 1994	Ketones I	DD
NIOSH 1302 1998-01	N-methyl-2-pyrrolidone	DD
NIOSH 1400 1994	Alcohols I	DD
NIOSH 1401 1994	Alcohols II	DD
NIOSH 1403 2003	Alcohols IV	DD
NIOSH 1450 2003	Esters I	DD
NIOSH 1500 2003	Hydrocarbons, BP 36 ° -216 ° C	DD
NIOSH 1501 2003	Hydrocarbens, aromatic	DD

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NIOSH 1552 1996	Terpenes	DD
NIOSH 2000 1998	Methanol	DD
NIOSH 2546 1994	Cresol (all isomers) and phenol (Here additionally: <i>Determination of alkylphenols</i>)	DD
NIOSH 2554 2003	Glycol esters	DD
NIOSH 2555 2003	Ketones I	DD
NIOSH 5523 1996	Glycols	DD

10 Selected analysis of commodities

DIN EN 14719 2005-10	Pulp, paper and board - Determination of the Diisopropyl-naphthalene (DIPN) content by solvent extraction	DD
ASU B 80.56-2 Corrigendum 2004-06	Analysis of commodity goods - Determination of 1,3-dichloro- 2-propanol and 3-monochloro-1,2-propanediol in the water extract of paper, cardboard and paperboard	DD

11 Determination of asbestos and particulate matter in air, material samples and deposits

BIA 7487 2003-10	Method for analytical determination of low mass contents of asbestos fibres in powders and dusts with REM/EDX	DD
BGI/GUV-I 505-46 2014-02	Method for separate determination of concentrations of respirable inorganic fibres in work areas - Scanning electron microscopy method (from chapter 2, section 2.3)	DD
VDI 3492 2013-06	Indoor air measurement - Ambient air measurement - Measurement of inorganic fibrous particles - Scanning electron microscopy method	DD

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VDI 3861 Blatt 2 2008-01	Stationary source emissions - Measurement of inorganic fibrous particles in exhaust gas - Scanning electron microscopy method (analysis only)	DD
VDI 3866 Blatt 1 2000-12	Determination of asbestos in technical products - Principle - Sampling and sample preparation	DD
VDI 3866 Blatt 5 2017-06	Determination of asbestos in technical products - Scanning electron microscopy method	DD
VDI 3877 Blatt 1 2011-09	Indoor air pollution - Measurement of fibrous dust settled on surfaces - Sampling and analysis (REM/EDXA)	DD
In-house method SOP M 935 2016-12	Analysis of artificial mineral fibres (AMF) for classification in accordance with TRGS 905	DD
In-house method SOP M 2903 2016-12	Analysis of contact samples for asbestos using scanning electron microscopy with energy dispersive X-ray microanalysis	DD

12 Selected mechanical-technological tests of steels

DIN EN ISO 2639 2003-040	Steels - Determination and verification of the depth of carburized and hardened cases	DD
DIN EN ISO 6507-1 2006-03	Vickers hardness test - Part 1: Test method	DD
DIN EN 10328 2005-04	Iron and steel - Determination of the conventional depth of hardening after surface heating	DD
DIN 50190-3 1979-03	Hardness depth of heat-treated parts - Determination of the effective depth of hardening after nitriding	DD

13 Selected metallographic analysis

DIN EN ISO 643 2013-05	Steels - Micrographic determination of the apparent grain size	DD
DIN EN ISO 1463 2004-08	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method	DD

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14 Analysis of materials and products using X-ray diffraction and scanning electron microscopy

DIN EN 13925-2 2003-07	Non-destructive testing - X-ray diffraction from polycrystalline and amorphous material - Part 2: Procedures	DD
In-house method SOP M 363 2021-03	XRD method qualitative	DD
In-house method SOP M 446 2021-03	Imaging of sample surfaces and sections with secondary and backscattered electrons and analysis using SEM/EDX or ESEM/EDX	DD
In-house method SOP M 502 2021-03	General measuring procedure of scanning electron microscopy (SEM/ESEM) and energy dispersive X-ray microanalysis (EDX)	DD

15 Dotand profile measurement of semiconductor materials using SRP and SIMS

In-house method SOP M 1179 2008-11	Dotand profile measurements of semiconductor materials using spreading resistance profiling (SRP)	DD
In-house method SOP M 1183 2017-10	Dotand profile measurements of semiconductor materials using secondary ion mass spectrometry (SIMS)	DD

16 Surface, thin-film and microanalytical testing of materials using XPS

In-house method SOP M 1177 2021-03	Surface, thin-film and microanalytical analysis of materials using photoelectron spectrometry (XPS X-ray photoelectron spectrometry)	DD
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17 Determination of material parameters of plastics by thermal analysis *

DIN EN ISO 11357-1 2017-02	Plastics - Differential scanning calorimetry (DSC) - Part 1: Noise control strategies	DD
DIN EN ISO 11357-2 2014-07	Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and glass transition step height	DD

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DIN EN ISO 11357-3 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of the melting and crystallisation temperature and enthalpy of melting and crystallisation	DD
DIN EN ISO 11357-6 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT)	DD
DIN EN ISO 11358 2014-10	Plastics - Thermogravimetry (TG) of polymers: General principles	DD

18 Testing of semiconductor products using scanning electron microscopy

In-house method SOP M 455 2021-03	Imaging and analysis of sample surfaces/sections using SEM/EDX	ZMD
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19 List of test methods for the specialist module for WATER at the Markkleeberg location

Revised: LAWA of 23.03.2012

Section 1: Sampling and general parameters

Parameter	Method	Was	Sur	Raw
Sampling of waste water	DIN 38402-A 11: 1995-12	<input type="checkbox"/>		
	DIN 38402-A 11: 2009-02	<input type="checkbox"/>		
Sampling from running waters	DIN 38402-A 15: 1986-07		<input type="checkbox"/>	
	DIN 38402-A 15: 2010-04		<input checked="" type="checkbox"/>	
Sampling from aquifers	DIN 38402-A 13: 1985-12			<input checked="" type="checkbox"/>
Sampling from barrages and lakes	DIN 38402-A 12: 1985-06		<input checked="" type="checkbox"/>	
Homogenisation of samples	DIN 38402-A 30: 1998-07	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Temperature	DIN 38404-C 4: 1976-12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
pH value	DIN 38404-C 5: 1984-01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	DIN 38404-C 5: 2009-07	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Conductivity (25 °C)	DIN EN 27888: 1993-11 (C 8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Odour	DIN EN 1622: 2006-10 (B 3) Annex C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Colouring	DIN EN ISO 7887: 1994-12 (C 1) Section 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Turbidity	DIN EN ISO 7027: 2000-04 (C 2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oxygen	DIN EN 25814: 1992-11 (G 22)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Redox potential	DIN 38404-C 6: 1984-05			<input checked="" type="checkbox"/>

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Section 2: Photometry, ion chromatography, titrimetry

Not used

Section 3: Elemental analysis

Not used

Section 4/5: Group and sum parameters

Not used

Section 6: Gas chromatographic methods

Not used

Section 7: HPLC methods

Not used

Section 8: Microbiological methods

Not used

Section 9.1: Biological methods, bio-assays (part 1)

Not used

Section 9.2: Biological methods, bio-assays (part 2)

Not used

Abbreviations used

ASTM	American Society of Testing and Material
AQS	Analytische Qualitätssicherung (Analytical Quality Assurance)
BGI	Bundesgenossenschaftliches Institut (Federal Cooperative Institute)
BIA	Berufsgenossenschaftliches Institut für Arbeitsschutz (former name of the German Institute for Occupational Safety and Health)
DIN	Deutsches Institut für Normung (German Institute for Standardization)
EN	European Standard
In-house method SOP	In-house method of SGS INSTITUT FRESENIUS GmbH
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
LAWA	Bund-/Länderarbeitsgemeinschaft Wasser (Federal/Regional Working Group on Water)
NA	Not used
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety & Health Administration
UBA	Umweltbundesamt (Federal Environment Agency)
VDI	Verein Deutscher Ingenieure (Association of German Engineers)

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