

Date : 2018-03-22

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TITLE : SABS/TC/147/SC 06: Water sampling and analysis

**RECOMMENDED ACTION**

SANS Number Int. Relatedness	SABS Number	Year	dition	Status Code	Title	Abstract	Amend Code	Amend Number	Corr Number	Amend Ind	Amend Date
SANS 163-1 (ISO 10304-1:2007, IDT, Ed. 2)	SABS ISO 10304-1	2015	2.00	ST	Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 1: Determination of bromide, chloride, fluoride, nitrate, phosphate and sulfate	Specifies a method for the determination of dissolved bromide, chloride, fluoride, nitrate, nitrite, orthophosphate and sulfate in water, e.g. drinking water, ground water, surface water, waste water, leachates and marine water by liquid chromatography of ions.					Reaffirm as is/Amend/withdraw
SANS 374 (ASTM D 512:2004, IDT)		2005	1.00	ST	Standard test methods for chloride ion in water	Specifies test methods that cover the determination of chloride ion in water, wastewater and brines.					Reaffirm as is/withdraw/ adopt the latest version of ASTM D 512:2012
SANS 375 (ASTM D 1889:2000, IDT)		2005	1.00	ST	Standard test method for turbidity of water	Specifies a test method that covers the determination of turbidity in water and wastewater. Applies to the measurement of turbidities in the range from 1,0 to 40 nephelometric turbidity units (NTU).					Reaffirm as is/withdraw/adopt the latest version of ASTM D6698, D6855 which replaced ASTM D 1889
SANS 376 (ASTM D 2972:2008, IDT)		2015	2.00	ST	Standard test methods for arsenic in water	Specifies test methods that cover the photometric and atomic absorption determination of arsenic in most waters and wastewaters.					Reaffirm as is/withdraw/ adopt the latest version of ASTM D 2972:2015
SANS 381 (ASTM D 857:2012, IDT)		2017	2.00	ST	Standard test method for aluminium in water	Covers the direct flame atomic absorption determination of aluminum in the nitrous oxide-acetylene flame. Applicable to waters containing dissolved and total recoverable aluminum in the range from 0.5 to 5.0 mg/L.					Reaffirm as is/withdraw/ adopt the latest version of ASTM D 857:2017
SANS 382 (ASTM D 1068:2015, IDT)		2017	2.00	ST	Standard test methods for iron in water	Covers the determination of total iron, dissolved iron and ferrous iron in water using atomic absorption, atomic absorption-graphite furnace and photometric bathophenanthroline test methods.					Reaffirm as is/withdraw

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SANS 383 (ASTM D 1691:2002, IDT)		2007	1.00	ST	Standard test methods for zinc in water	Covers the determination of either dissolved or total recoverable zinc in water using the following two methods: Atomic absorption, direct: range 0.05 mg/L to 2.0 mg/L; and Atomic absorption, chelation-extraction: range 20 µg/L to 200 µg/L.				<b>Reaffirm as is/withdraw/ adopt the latest version of ASTM D 1691:2017</b>
SANS 384 (ASTM D 3559:2003, IDT)		2007	1.00	ST	Standard test methods for lead in water	Covers the determination of dissolved and total recoverable lead in water and waste water by atomic-absorption spectrophotometry and different pulse anodic stripping voltammetry, using the following four methods: Atomic absorption, direct: range 1.0 mg/L to 10 mg/L; Atomic absorption, chelation-extraction: range 100 µg/L to 1 000 µg/L; Differential pulse anodic stripping voltammetry: range 1 µg/L to 100 µg/L; and Atomic absorption, graphite furnace: range 5 µg/L to 100 µg/L.				<b>Reaffirm as is/withdraw/ to adopt the latest version of ASTM D 3559:2015</b>
SANS 450 (ISO 6058:1984, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of calcium content - EDTA titrimetric method	Specifies a titrimetric method using ethylenediaminetetraacetic acid (EDTA) for the determination of the calcium content of ground waters, surface waters and drinking waters. It can also be used for municipal and industrial raw waters, provided they do not contain interfering amounts of heavy metals. It is applicable to waters with calcium contents ranging from 2 mg/L to 100 mg/L (0,05 mmol/L to 2,5 mmol/L).				<b>Reaffirm as is/Amend/withdraw</b>
SANS 453 (ISO 6059:1984, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of the sum of calcium and magnesium - EDTA titrimetric method	Specifies a titrimetric method using ethylenediaminetetraacetic acid (EDTA) for the determination of the sum of calcium and magnesium concentrations in ground waters, surface waters and drinking waters. The lowest concentration that can be determined is 0,05 mmol/L.				<b>Reaffirm as is/Amend/withdraw</b>
SANS 3696 (ISO 3696:1987, IDT, Ed. 1)	SABS ISO 3696	1987	1.00	ST	Water for analytical laboratory use - Specification and test methods	Specifies the requirements and corresponding test methods for three grades of water for laboratory use for the analysis of inorganic chemicals.	A	1	N	2006-11-17 <b>Reaffirm as is/Amend/withdraw</b>

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SANS 3697 (ASTM D 3697:2007, IDT)		2012	1.00	ST	Standard test method for antimony in water	Covers the determination of dissolved and total recoverable antimony in water by atomic absorption spectroscopy. Applicable in the range from 1 to 15 ig/L of antimony.				<b>Reaffirm as is/withdraw/ adopt the latest version of ASTM D 3697:2017</b>
SANS 3859 (ASTM D 3859:2008, IDT)		2012	1.00	ST	Standard test methods for selenium in water	Covers the determination of dissolved and total recoverable selenium in most waters and wastewaters. Applicable to both inorganic and organic forms of dissolved selenium. Applicable also to particulate forms of the element, provided that they are solubilized in the appropriate acid digestion step.				<b>Reaffirm as is/withdraw/ adopt the latest version of ASTM D 3859:2015</b>
SANS 4374 (ASTM D 4374:2006, IDT)		2007	1.00	ST	Standard test methods for cyanides in water - Automated methods for total cyanide, weak acid dissociable cyanide, and thiocyanate	Covers the determination of different species of cyanides and thiocyanate in water, waste water, sludges and sediments, namely weak acid dissociable cyanide, total cyanide, and thiocyanate.				<b>Reaffirm as is/withdraw/ adopt the latest version of ASTM D 4374:2011</b>
SANS 5197	SABS SM 197	2007	3.00	ST	Water - Turbidity	Specifies a method for the determination of the turbidity of any water sample that is free of debris and rapidly settling coarse sediments. It is based on a comparison of the intensity of light scattered by the sample with the intensity of light scattered by a reference standard.				<b>Reaffirm as is/Amend/Revise/withdraw</b>
SANS 5201	SABS SM 201	2010	3.02	ST	Water - Cadmium content	Specifies a method of determining the cadmium content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption. It is applicable to the determination of cadmium in the concentration range 0,05 mg/L to 2,0 mg/L.	A	1	N	2005-01-21
							A	2	N	2010-03-31
										<b>Reaffirm as is/Amend/Revise/withdraw</b>
SANS 5203	SABS SM 203	2010	3.02	ST	Water - Copper content	Specifies a method of determining the copper content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption. The method is applicable to the determination of copper in the concentration range 0,02 mg/L to 5,0 mg/L.	A	1	N	2004-12-15
							A	2	N	2010-03-31
										<b>Reaffirm as is/Amend/Revise/withdraw</b>

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SANS 5207	SABS SM 207	2010	3.02	ST	Water - Iron content	Specifies a method of determining the iron content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption. Applies to the determination of iron in the concentration range 0,05 mg/L to 5,0 mg/L.	A A	1 2	N N	2004-12-10 2010-03-26
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 5208	SABS SM 208	2010	3.02	ST	Water - Lead content	Specifies a method of determining the lead content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption.	A A	1 2	N N	2004-12-10 2010-03-31
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 5209	SABS SM 209	2010	3.02	ST	Water - Manganese content	Specifies a method of determining the manganese content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption.	A A	1 2	N N	2005-01-14 2010-03-31
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 5210	SABS SM 210	2010	2.03	ST	Water - Nitrate and nitrite content	Specifies a method of measuring the concentration of nitrate and nitrite nitrogen in water and wastewater.	<b>Reaffirm as is/Amend/Revise/withdraw</b>			
							A	3	N	2010-04-23
SANS 5213	SABS SM 213	2013	2.03	ST	Water - Dissolved solids content	Specifies a method of measuring the concentration of dissolved solids in water and in wastewater by gravimetric determination of the drv residue of the sample after filtration through a glass fibre filter of nominal pore size 1,0 µm ± 0,2 µm.	<b>Reaffirm as is/Amend/Revise/withdraw</b>			
							A	3	N	2013-08-19
SANS 5214	SABS SM 214	2010	3.02	ST	Water - Zinc content	Specifies a method of determining the zinc content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption.	A A	1 2	N N	2005-01-14 2010-04-23
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			

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SANS 5217	SABS SM 217	2010	3.03	ST	Water - Free and saline ammonia content	Specifies a method of measuring the concentration of un-ionized and ionized ammoniacal nitrogen in water and in wastewater.					<b>Reaffirm as is/Amend/Revise/withdraw</b>
							A	3	N	2010-04-23	
SANS 5218	SABS SM 218	2007	2.00	ST	Water - Albuminoid ammonia content Use with: SANS 5217:2010	Specifies a method for the determination of the albuminoid ammonia content of water after the liberation of the free and saline ammonia in accordance with SANS 5217.					<b>Reaffirm as is/Amend/Revise/withdraw</b>
SANS 5220	SABS SM 220	2010	2.02	ST	Water - Oxygen absorption	Specifies a method of determining the oxygen absorption value of water and wastewater.	A	1	N	2005-01-21	
							A	2	N	2010-04-23	<b>Reaffirm as is/Amend/Revise/withdraw</b>
SANS 5667-1 (ISO 5667-1:2006, IDT, Ed. 2)	SABS ISO 5667-1	2008	2.00	ST	Water quality - Sampling Part 1: Guidance on the design of sampling programmes and sampling techniques	Sets out the general principles for, and provides guidances on, the design of sampling programmes and sampling techniques for all aspects of sampling water (including waste waters, sludges, effluents and bottom deposits).					<b>Reaffirm as is/Amend/withdraw</b>
SANS 5667-3 (ISO 5667-3:2003, IDT, Ed. 3)	SABS ISO 5667-3	2006	2.00	ST	Water quality - Sampling Part 3: Guidance on the preservation and handling of water samples	Gives general guidelines on the precautions to be taken to preserve and transport all water samples including those for biological analyses but not those intended for microbiological analysis. These guidelines are particularly appropriate when spot or composite samples cannot be analysed on-site and have to be transported to a laboratory for analysis.					<b>Reaffirm as is/Amend/withdraw/ adopt the latest version of ISO 5667-3:2012</b>
SANS 5667-4 (ISO 5667-4:1987, IDT, Ed. 1)	SABS ISO 5667-4	1987	1.00	ST	Water quality - Sampling Part 4: Guidance on sampling from lakes, natural and man-made	Presents detailed principles to be applied to the design of sampling programmes, to sampling techniques and the handling and preservation of samples of water from natural and man-made lakes.	A	1	N	2006-02-16	<b>Reaffirm as is/Amend/withdraw/ adopt the latest version of ISO 5667-4:2016</b>

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SANS 5667-5 (ISO 5667-5:2006, IDT, Ed. 2)	SABS ISO 5667-5	2006	2.00	ST	Water quality - Sampling Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems	Establishes principles to be applied to the techniques of sampling water intended for human consumption, where water is drawn from municipal or similar distribution systems (including individual systems) where either prior treatment or quality assessment (or both) has resulted in the water being classified as suitable for drinking or potable process purposes. It is specifically applicable to water that is in continuous supply relative to any stage of use up to and including the point of consumption in a distribution system. This includes distribution within large buildings in which additional water quality management might be applicable. It is also applicable to sampling situations that can arise relative to the investigation of system defects or emergency situations where the safety of sampling operatives is not compromised.				<b>Reaffirm as is/Amend/withdraw</b>
SANS 5667-6 (ISO 5667-6:2005, IDT, Ed. 2)	SABS ISO 5667-6	2006	2.00	ST	Water quality - Sampling Part 6: Guidance on sampling of rivers and streams	Sets out the principles to be applied to the design of sampling programmes, sampling techniques and the handling of water samples from rivers and streams for physical, chemical and limited microbiological assessment.				<b>Reaffirm as is/Amend/withdraw/adopt the latest version of ISO 5667-6:2014</b>
SANS 5667-10 (ISO 5667-10:1992, IDT, Ed. 1)		2007	1.00	ST	Water quality - Sampling Part 10: Guidance on sampling of waste waters	Contains details on the sampling of domestic and industrial waste water, i.e. the design of sampling programmes and techniques for the collection of samples. Covers waste water in all its forms, i.e. industrial waste water, and crude and treated domestic waste water.				<b>Reaffirm as is/Amend/withdraw</b>
SANS 5667-11 (ISO 5667-11:2009, IDT)	SABS ISO 5667-11	2015	2.00	ST	Water quality - Sampling Part 11: Guidance on sampling of groundwaters	Provides guidance on the sampling of groundwaters. Informs the user of the necessary considerations when planning and undertaking groundwater sampling to survey the quality of groundwater supply, to detect and assess groundwater contamination and to assist in groundwater resource management, protection and remediation.				<b>Reaffirm as is/Amend/withdraw</b>

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SANS 5667-13 (ISO 5667-13:2011, IDT, Ed. 1)		2016	2.00	ST	Water quality - Sampling Part 13: Guidance on sampling of sludges	Gives guidance on the sampling of sludges from wastewater treatment works, water treatment works and industrial processes. Is applicable to all types of sludge arising from these works and also to sludges of similar characteristics, for example septic tank sludges.				<b>Reaffirm as is/Amend/withdraw</b>
SANS 5667-14 (ISO 5667-14:2014, IDT, Ed. 1)		2016	2.00	ST	Water quality - Sampling Part 14: Guidance on quality assurance and quality control of environmental water sampling and handling	Provides guidance on the selection and use of various quality assurance and quality control techniques relating to the manual sampling of surface, potable, waste, marine and ground waters.				<b>Reaffirm as is/Amend/withdraw</b>
SANS 5667-15 (ISO 5667-15:1999, IDT, Ed. 1)	SABS ISO 5667-15	2016	2.00	ST	Water quality - Sampling Part 15: Guidance on the preservation and handling of sludge and sediment samples	Provides guidance on procedures for the preservation, handling and storage of samples of sewage and waterworks sludge, suspended matter, saltwater sediments and freshwater sediments, until chemical, physical, radiochemical or biological examination can be undertaken in the laboratory.				<b>Reaffirm as is/Amend/withdraw/ adopt the latest version of ISO 5667-15:2009</b>
SANS 5667-18 (ISO 5667-18:2001, IDT, Ed. 1)		2007	1.00	ST	Water quality - Sampling Part 18: Guidance on sampling of groundwater at contaminated sites	Provides guidance on the sampling of groundwater at potentially contaminated sites. Is applicable to situations where contamination of the subsurface could exist as a result of downward migration of pollutants whose source is at the surface or just below it, and when the guidance in ISO 5667-11 (published in South Africa as an identical adoption under the designation SANS 5667-11) is inappropriate.				<b>Reaffirm as is/Amend/withdraw ISO 5667-18 withdrawn at ISO and replaced by ISO 5667-11:2009</b>
SANS 6047	SABS SM 1047	2007	2.00	ST	Water - Dissolved oxygen content	Specifies a method for the determination of the dissolved oxygen content of water and wastewater.				<b>Reaffirm as is/Amend/Revise/withdraw</b>

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SANS 6048	SABS SM 1048	2010	2.02	ST	Water - Chemical oxygen demand	Specifies a method of determining the chemical oxygen demand (COD) in water and wastewater. The method is applicable to the determination of COD in the concentration range 20 mg/L to 700 mg/L. Oxidation of halides present in the sample is avoided by complexing with mercuric (II) sulfate. In highly saline samples where the chloride concentration of the test portion is in excess of 2 000 mg/L, positive interference may be attributable to partial oxidation of the chloride.	A A	1 2	N N	2005-01-14 2010-04-30
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6049	SABS SM 1049	2010	2.02	ST	Water - Suspended solids content	Specifies a method of measuring the concentration of suspended solids in water and in wastewater.	A A	1 2	N N	2004-12-10 2010-04-30
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6050	SABS SM 1050	2010	2.02	ST	Water - Sodium content	Specifies a method of determining the sodium content of water and wastewater by direct flame emission photometry. Is applicable to the determination of sodium in the concentration range 1 mg/L to 50 mg/L.	A A	1 2	N N	2004-12-10 2010-04-30
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6051	SABS SM 1051	2007	2.00	ST	Water - Oil and grease content	Specifies a method for the determination of the oil and grease content of water and wastewater.	<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6053	SABS SM 1053	2007	2.00	ST	Water - Boron content	Specifies a method for the determination of the boron content of water and wastewater.	<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6054	SABS SM 1054	2010	2.02	ST	Water - Chromium content	Specifies a method of determining the chromium content of water and wastewater, using a nitrous oxide-acetylene flame and direct flame atomic absorption.	A A	1 2	N N	2004-12-10 2010-04-30
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			

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SANS 6055	SABS SM 1055	2006	2.00	ST	Water - Orthophosphate content	Specifies a method for the determination of the orthophosphate content of water and wastewater.					Reaffirm as is/Amend/Revise/withdraw
SANS 6056	SABS SM 1056	2007	2.00	ST	Water - Sulfide content	Specifies a method for the determination of the sulfide content of water and wastewater.					Reaffirm as is/Amend/Revise/withdraw
SANS 6059	SABS SM 1059	2010	2.01	ST	Water - Mercury content	Specifies a method for the determination of the mercury content of water and wastewater by using atomic absorption spectrophotometry. Is applicable to the determination of mercury in the concentration range 0,001 mg/L to 0,010 mg/L.	A	1	N	2010-04-23	Reaffirm as is/Amend/Revise/withdraw
SANS 6168	SABS SM 1168	2010	1.02	ST	Water - Pretreatment for metal analysis	Specifies a method of preparing water and wastewater samples for analysis for the constituent forms of metals. Is only applicable to the preparation of samples for analysis in accordance with test methods that specifically identify this method for pretreatment purposes.	E A A	1 1 2	N N N	1990-11-01 2004-12-15 2010-04-23	Reaffirm as is/Amend/Revise/withdraw
SANS 6169	SABS SM 1169	2010	1.02	ST	Water - Aluminium content	Specifies a method of determining the aluminium content of water and wastewater, using a nitrous oxide-acetylene flame and direct flame atomic absorption. The method is applicable to the determination of aluminium in the concentration range 0,1 mg/L to 100 mg/L.	A A	1 2	N N	2005-01-14 2010-04-23	Reaffirm as is/Amend/Revise/withdraw
SANS 6170	SABS SM 1170	2010	1.02	ST	Water - Cobalt content	Specifies a method of determining the cobalt content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption. The method is applicable to the determination of cobalt in the concentration range 0,1 mg/L to 10 mg/L.	A A	1 2	N N	2005-01-14 2010-04-23	Reaffirm as is/Amend/Revise/withdraw

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SANS 6171	SABS SM 1171	2010	1.02	ST	Water - Nickel content	Specifies a method of determining the nickel content of water and wastewater, using an air-acetylene flame and direct flame atomic absorption. The method is applicable to the determination of nickel in the concentration range 0,05 mg/L to 10,0 mg/L.	A A	1 2	N N	2004-12-10 2010-04-30
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6265	SABS SM 1265	2006	1.02	ST	Water - Calcium and magnesium content - Atomic absorption spectrometric method	Describes a method for the determination of dissolved calcium and magnesium by flame atomic absorption spectrometry.	A A	1 2	N N	2000-06-09 2006-07-28
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6310	SABS SM 1310	2005	1.01	ST	Sulfate content of water (turbidimetric method)	Describes a method for determining sulfate in water in the range 4 mg/L to approximately 160 mg/L of sulfate ion (SO <sub>4</sub> =).	A	1	N	2005-08-05
							<b>Reaffirm as is/Amend/Revise/withdraw</b>			
SANS 6439 (ISO 6439:1990, IDT, Ed. 2)		2006	1.00	ST	Water quality - Determination of phenol index - 4-Aminoantipyrine spectrometric methods after distillation	Specifies two methods for determining the phenol index in drinking waters, surface waters and waste waters; by direct colorimetric method capable of measuring the phenol index in test samples that contain more than 0,10 mg/L in the aqueous phase (without chloroform extraction), using phenol as a standard; and a chloroform extraction method capable of measuring the phenol index without dilution from about 0,002 mg/L to about 0,010 mg/L when the coloured end-product is extracted and concentrated in chloroform phase, using phenol as a standard.	<b>Reaffirm as is/Amend/withdraw</b>			
SANS 6703-1 (ISO 6703-1:1984, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of cyanide Part 1: Determination of total cyanide	Specifies three methods for the determination of total cyanide in water.	<b>Reaffirm as is/Amend/withdraw</b>			

**Note:**

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Date : 2018-03-22

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TITLE : SABS/TC/147/SC 06: Water sampling and analysis

**RECOMMENDED ACTION**

SANS Number Int. Relatedness	SABS Number	Year	Edition	Status Code	Title	Abstract	Amend Code	Amend Number	Amend Ind	Amend Date	
SANS 6703-2 (ISO 6703-2:1984, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of cyanide Part 2: Determination of easily liberatable cyanide	Specifies three methods for the determination of easily liberatable cyanide in water.					<b>Reaffirm as is/Amend/withdraw</b>
SANS 6777	SABS ISO 6777	1984	1.00	ST	Water quality - Determination of nitrite - Molecular absorption spectrometric method	Specifies a molecular absorption spectrometric method for the determination of nitrite in potable, raw and waste water.	A	1	N	2006-02-03	<b>Reaffirm as is/Amend/withdraw</b>
SANS 6878 (ISO 6878:2004, IDT, Ed. 2)	SABS ISO 6878	2006	2.00	ST	Water quality - Determination of phosphorus - Ammonium molybdate spectrometric method	Specifies methods suitable for the determination of orthophosphates, orthophosphate after solvent extraction, hydrolysable phosphate plus orthophosphate, and total phosphorus after decomposition in all kinds of water including seawater and effluents.					<b>Reaffirm as is/Amend/withdraw</b>
SANS 7393-1 (ISO 7393-1:1985, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of free chlorine and total chlorine Part 1: Titrimetric method using N,N-diethyl-1,4-phenylenediamine	Specifies a titrimetric method for the determination of free chlorine and total chlorine in water. It is applicable to concentrations, in terms of chlorine (Cl <sub>2</sub> ), from 0,0004 mmol/L to 0,07 mmol/L (0,03 mg/L to 5 mg/L) total chlorine and at higher concentrations by dilution of samples.	C	1	I	2005-11-21	<b>Reaffirm as is/Amend/withdraw</b>
SANS 7393-2 (ISO 7393-2:1985, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of free chlorine and total chlorine Part 2: Colorimetric method using N,N-diethyl-1,4-phenylenediamine, for routine control purposes	Specifies a method for the determination of free chlorine and total chlorine in water, readily applicable to field testing; based on measurement of the colour intensity by visual comparison of the colour with a scale of standards which is regularly calibrated. It is applicable to concentrations, in terms of chlorine (Cl <sub>2</sub> ), from 0,0004 mmol/L to 0,07 mmol/L (0,03 mg/L to 5 mg/L) total chlorine and at higher concentrations by dilution of samples.					<b>Reaffirm as is/Amend/withdraw/adopt the latest version of ISO 7393-2:2017</b>

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SANS 7393-3 (ISO 7393-3:1990, IDT, Ed. 2)		2005	1.00	ST	Water quality - Determination of free chlorine and total chlorine Part 3: Iodometric titration method for the determination of total chlorine	Specifies an iodometric titration method for the determination of total chlorine in water. It is applicable to concentrations, in terms of chlorine (Cl <sub>2</sub> ), from 0,01 mmol/L to 0,21 mmol/L (0,71 mg/L to 15 mg/L).				Reaffirm as is/Amend/withdraw
SANS 7875-1 (ISO 7875-1:1996, IDT, Ed. 2)		2006	1.00	ST	Water quality - Determination of surfactants Part 1: Determination of anionic surfactants by measurement of the methylene blue index (MBAS)	Specifies a spectrometric method for the determination of anionic surfactants by measurement of the methylene blue index (MBAS) in aqueous media in drinking water, surface water as well as waste water. This method is applicable to a range of concentrations from 0,1 mg/L to 5,0 mg/L.	C	1	I	2006-09-15 Reaffirm as is/Amend/withdraw
SANS 7887 (ISO 7887:1994, IDT, Ed. 2)		2005	1.00	ST	Water quality - Examination and determination of colour	Specifies three methods for the examination of the colour of water, by examination of apparent colour by visual observation, by determination of the true colour using optical apparatus, and by determination of the colour by visual comparison with hexachloroplatinate standard solutions.				Reaffirm as is/Amend/withdraw/adopt the latest version of ISO 7887:2011
SANS 7888 (ISO 7888:1985, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of electrical conductivity	Specifies a method for the measurement of the electrical conductivity of all types of water.				Reaffirm as is/Amend/withdraw
SANS 8165-2 (ISO 8165-2:1999, IDT, Ed. 1)	SABS ISO 8165-2	1999	1.00	ST	Water quality - Determination of selected monovalent phenols Part 2: Method by derivatization and gas chromatography	Specifies a method for the determination of phenols by gas chromatography, following pentafluorobenzoyl chloride (PFBC) derivatization. It may be applied to the examination of drinking water, ground water and moderately contaminated surface water, where lower limits of detection may be obtained compared with extraction procedures.	A	1	N	2006-08-04 Reaffirm as is/Amend/withdraw

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SANS Number Int. Relatedness	SABS Number	Year	Edition	Status Code	Title	Abstract	Amend Code	Amend Number	Amend Ind	Amend Date
SANS 8466-1 (ISO 8466-1:1990, IDT, Ed. 1)		2002	1.00	ST	Water quality - Calibration and evaluation of analytical methods and estimation of performance characteristics Part 1: Statistical evaluation of the linear calibration function	Describes the steps to be taken in evaluating the statistical characteristics of the linear calibration function. Applies to methods that require calibration.				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 8466-2 (ISO 8466-2:2001, IDT, Ed. 2)		2002	1.00	ST	Water quality - Calibration and evaluation of analytical methods and estimation of performance characteristics Part 2: Calibration strategy for non-linear second-order calibration functions	Applies to method development and not necessarily to all routine analyses.				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 9297		2013	1.02	ST	Water quality - Determination of chloride - Silver nitrate titration with chromate indicator (Mohr's method)	Specifies a titration method for the determination of dissolved chloride in water. The method is applicable to the direct determination of dissolved chloride in concentrations between 5 mg/L and 150 mg/L. The working range may be extended to 400 mg/L by using a burette of larger capacity or by sample dilution. Due to many interferences, the method is not applicable to heavily polluted waters of low chloride content.	A A	1 2	N N	2010-08-06 2013-07-05
SANS 9408 (ISO 9408:1999, IDT, Ed. 2)	SABS ISO 9408	1999	1.00	ST	Water quality - Evaluation of ultimate aerobic biodegradability of organic compounds in aqueous medium by determination of oxygen demand in a closed respirometer	Specifies a method, by determination of the oxygen demand in a closed respirometer, for the evaluation in aqueous medium of the ultimate biodegradability of organic compounds and waste waters at a given concentration by aerobic microorganisms.	A	1	N	2006-08-04
SANS 10359-1 (ISO 10359-1:1992, IDT, Ed. 1)		2002	1.00	ST	Water quality - Determination of fluoride Part 1: Electrochemical probe method for potable and lightly polluted water	Specifies a method for the determination of dissolved fluoride in fresh, potable and low contaminated water, and some surface waters, using an electrochemical technique.				<b>Reaffirm as is/Amend/Withdraw</b>

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SANS Number Int. Relatedness	SABS Number	Year	Edition	Status Code	Title	Abstract	Amend Code	Amend Number	Amend Ind	Amend Date
SANS 10359-2 (ISO 10359-2:1994, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of fluoride Part 2: Determination of inorganically bound total fluoride after digestion and distillation	Specifies a method for the determination of inorganically bound total fluoride.				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 10523 (ISO 10523:2008, IDT, Ed. 2)		2012	1.00	ST	Water quality - Determination of pH	Specifies a method for determining the pH value in rain, drinking and mineral waters, bathing waters, surface and ground waters, as well as municipal and industrial waste waters, and liquid sludge, within the range pH 2 to pH 12 with an ionic strength below $I = 0,3 \text{ mol/kg}$ solvent and in the temperature range $0 \text{ }^\circ\text{C}$ to $50 \text{ }^\circ\text{C}$ .				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 10566 (ISO 10566:1994, IDT, Ed. 1)		2006	1.00	ST	Water quality - Determination of aluminium - Spectrometric method using pyrocatechol violet	Specifies a method for the determination of filterable (dissolved) and acid-soluble aluminium in potable waters, ground waters, and lightly polluted surface and sea waters. Includes low range determination up to $100 \text{ } \mu\text{g/L}$ Al with 50 mm cells and high range up to $500 \text{ } \mu\text{g/L}$ Al with 10 mm cells.				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 11083 (ISO 11083:1994, IDT, Ed. 1)		2005	1.00	ST	Water quality - Determination of chromium (VI) - Spectrometric method using 1,5-diphenylcarbazide	Specifies a spectrometric method for determination of chromium(VI) in water. The method is applicable to the determination of dissolved chromium(VI) in the concentration range of $0,05 \text{ mg/L}$ to $3 \text{ mg/L}$ . The application range may be extended by dilution of the sample.				<b>Reaffirm as is/Amend/Withdraw</b>
SANS 11732 (ISO 11732:2005, IDT, Ed. 2)	SABS ISO 11732	2006	2.00	ST	Water quality - Determination of ammonium nitrogen - Method by flow analysis (CFA and FIA) and spectrometric detection	Specifies methods suitable for the determination of ammonium nitrogen in various types of waters (such as ground, drinking, surface, and waste waters) in mass concentrations ranging from $0,1 \text{ mg/L}$ to $10 \text{ mg/L}$ (in the undiluted sample), applying either FIA or CFA.				<b>Reaffirm as is/Amend/Withdraw</b>

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SANS 11885 (ISO 11885:2007, IDT, Ed. 2)	SABS ISO 11885	2008	2.00	ST	Water quality - Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)	Specifies a method for the determination of dissolved elements, elements bound to particles ("particulate") and total content of elements in different types of water (e.g. ground, surface, raw, potable and waste water) for the following elements: aluminium, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, chromium, cobalt, copper, gallium, indium, iron, lead, lithium, magnesium, manganese, molybdenum, nickel, phosphorus, potassium, selenium, silicon, silver, sodium, strontium, sulfur, tin, titanium, tungsten, vanadium, zinc and zirconium. Suitable for mass concentrations of particulate matter in waste water below 2 g/l.					Reaffirm as is/Amend/Withdraw
SANS 13395 (ISO 13395:1996, IDT, Ed. 1)	SABS ISO 13395	1996	1.00	ST	Water quality - Determination of nitrite nitrogen and nitrate nitrogen and the sum of both by flow analysis (CFA and FIA) and spectrometric detection	Specifies a method for the determination of nitrite(N), nitrate(N) or the sum of both [nitrite/nitrate(N)], in various types of waters (such as ground, drinking, surface, and waste waters) in mass concentrations ranging from 0,01 mg/L to 1 mg/L for nitrite(N) and from 0,2 mg/L to 20 mg/L for nitrite/nitrate(N), both in the undiluted sample. The range of application can be changed by varying the operating conditions.	A	1	N	2006-08-04	Reaffirm as is/Amend/Withdraw
SANS 14403 (ISO 14403:2002, IDT, Ed. 1)		2002	1.00	ST	Water quality - Determination of total cyanide and free cyanide by continuous flow analysis	Specifies methods for the determination of cyanide in various types of water.					Reaffirm as is/Amend/Withdraw/Adopt the latest version of ISO 14403-2:2012
SANS 15587-1 (ISO 15587-1:2002, IDT, Ed. 1)		2002	1.00	ST	Water quality - Digestion for the determination of selected elements in water Part 1: Aqua regia digestion	Specifies a method for extracting trace elements from a water sample using aqua regia as a digestion agent.					Reaffirm as is/Amend/Withdraw
SANS 15587-2 (ISO 15587-2:2002, IDT, Ed. 1)		2002	1.00	ST	Water quality - Digestion for the determination of selected elements in water Part 2: Nitric acid digestion	Specifies a method for extracting trace elements from a water sample using nitric acid as a digestion agent.					Reaffirm as is/Amend/Withdraw

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SANS Number Int. Relatedness	SABS Number	Year	Edition	Status Code	Title	Abstract	Amend Code	Amend Number	Amend Ind	Amend Date	
SANS 15682 (ISO 15682:2000, IDT, Ed. 1)		2002	1.00	ST	Water quality - Determination of chloride by flow analysis (CFA and FIA) and photometric or potentiometric detection	Specifies two methods for the determination of chloride by flow analysis.					Reaffirm as is/Amend/Withdraw
SANS 16590 (ISO 16590:2000, IDT, Ed. 1)	SABS ISO 16590	2000	1.00	ST	Water quality - Determination of mercury - Methods involving enrichment by amalgamation	Specifies two methods for the determination of mercury, one using tin(II) chloride and the other sodium tetrahydroborate as reducing agent. The methods are suitable for the determination of mercury in water, for example in ground, surface or waste water, in the concentration range 0,01 µg/L to 1 µg/L. Higher concentrations may be determined if the water sample is diluted.	A	1	N	2006-11-17	Reaffirm as is/Amend/Withdraw/Adopt  ISO 16590:2000 has been revised by ISO 12846:2012
SANS 17381 (ISO 17381:2003, IDT, Ed. 1)		2008	1.00	ST	Water quality - Selection and application of ready-to-use test kit methods in water analysis	Gives guidance on the selection, and requirements for the application, of ready-to-use methods in water analysis. Deals with the practical aspects concerning quantitative ready-to-use methods. Briefly mentions statistical evaluations for establishing the equivalence of ready-to-use methods and standard methods. Also lists requirements for the producers of these tests, concerning safety and environmental aspects as well as handling and a description of ready-to-use methods.					Reaffirm as is/Amend/Withdraw
SANS 17495 (ISO 17495:2001, IDT, Ed. 1)		2002	1.00	ST	Water quality - Determination of selected nitrophenols - Method by solid-phase extraction and gas chromatography with mass spectrometric detection	Specifies a method for the determination of selected nitrophenols in drinking, ground and surface water in mass concentrations > 0,5 µg/l					Reaffirm as is/Amend/Withdraw

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