

Date

2023-11-30

Reference

2022/1124

## Scope of accreditation

### Testing according to SS-EN ISO/IEC 17025:2018

SGS Analytics Sweden AB

Umeå

Umeå

Accreditation number

1006

A001119-010

### Activity measurement

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Water analysis	Cesium, Cs-137	Inhouse method; KMLi-01 Cesium 137	Gamma spectrometry	50 – 10000 Bq/kg	Biological materials/biota	Yes	1	No	
			Gamma spectrometry	50 – 10000 Bq/kg	Food	Yes	1	No	
			Gamma spectrometry	50 – 10000 Bq/kg	Water	Yes	1	No	

### Chemical analysis

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Food analysis	Fat	ISO 9622 (IDF 141)	IR		Milk	Yes	2	No	
	Freezing point	SS-EN ISO 5764			Milk	Yes	2	No	
	Inhibitory substances	Delvotest T			Milk	Yes	2	No	
		Milksafe 3BTC	Lateral flow immunochromatography		Milk	Yes	2	No	
	Protein	ISO 9622 (IDF 141)	IR		Milk	Yes	2	No	
	Urea	ISO 9622 (IDF 141)	IR		Milk	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Acetate	SS-EN ISO 10304-1	Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
	Alkalinity	SS-EN ISO 9963-2	Titration		Drinking water	Yes	2	No	
			Titration		Fresh water	Yes	2	No	
			Titration		Waste water/Leach water	Yes	2	No	
	Ammonium as nitrogen	SS-EN ISO 11732	Flow analysis/Spectrometry		Drinking water	Yes	2	No	
			Flow analysis/Spectrometry		Fresh water	Yes	2	No	
			Flow analysis/Spectrometry		Sea water	Yes	2	No	
			Flow analysis/Spectrometry		Waste water/Leach water	Yes	2	No	
	Biochemical oxygen demand, 7 days, BOD7	SS-EN ISO 5815-1/ISO 17289	Optical sensor		Drinking water	Yes	2	No	
			Optical sensor		Fresh water	Yes	2	No	
			Optical sensor		Sea water	Yes	2	No	
			Optical sensor		Waste water/Leach water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Bromide	SS-EN ISO 10304-1	Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
	Chemical oxygen demand, COD-Cr	Hach Lange LCK 114	Photometry		Fresh water	Yes	2	No	
			Photometry		Sea water	Yes	2	No	
			Photometry		Waste water/Leach water	Yes	2	No	
	Chemical oxygen demand, COD-Mn	SS 028118, mod	Titration		Drinking water	Yes	2	No	
			Titration		Fresh water	Yes	2	No	
	Chlorate	SS-EN ISO 10304-4	Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Sea water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
	Chloride	SS-EN ISO 10304-1	Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Sea water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
		SS-EN ISO 10304-1/SS-EN 1911	Ion chromatography		Absorbent solution	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Colour	SS-EN ISO 7887, del B, mod	Photometry		Drinking water	Yes	2	No	
			Photometry		Fresh water	Yes	2	No	
			Photometry		Sea water	Yes	2	No	
			Photometry		Waste water/Leach water	Yes	2	No	
		SS-EN ISO 7887, del C, mod	Photometry		Drinking water	Yes	2	No	
			Photometry		Fresh water	Yes	2	No	
			Photometry		Sea water	Yes	2	No	
			Photometry		Waste water/Leach water	Yes	2	No	
	Conductivity	SS-EN 27888	Electrode		Drinking water	Yes	2	No	
			Electrode		Fresh water	Yes	2	No	
			Electrode		Sea water	Yes	2	No	
			Electrode		Waste water/Leach water	Yes	2	No	
	Corrosive carbonic acid	Std Methods 4500-CO2	Calculation		Drinking water	Yes	2	No	
	Fluoride	SS-EN ISO 10304-1	Ion chromatography		Absorbent solution	Yes	2	No	
			Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Formiat	SS-EN ISO 10304-1	Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
	Nitrate nitrogen	SS-EN ISO 10304-1	Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
		SS-EN ISO 13395	Calculation			Yes	2	No	
	Nitrite nitrogen	SS-EN ISO 13395	Flow analysis/Spectrometry		Drinking water	Yes	2	No	
			Flow analysis/Spectrometry		Fresh water	Yes	2	No	
			Flow analysis/Spectrometry		Sea water	Yes	2	No	
			Flow analysis/Spectrometry		Waste water/Leach water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Water analysis	Nitrite nitrogen and nitrate nitrogen	SS-EN ISO 13395	Flow analysis/Spectrometry		Drinking water	Yes	2	No	
			Flow analysis/Spectrometry		Fresh water	Yes	2	No	
			Flow analysis/Spectrometry		Sea water	Yes	2	No	
			Flow analysis/Spectrometry		Waste water/Leach water	Yes	2	No	
	Nitrogen, total	SS 028101	Kjeldahl titration		Waste water/Leach water	Yes	2	No	
		SS-EN ISO 11905-1	Flow analysis/Spectrometry		Drinking water	Yes	2	No	
			Flow analysis/Spectrometry		Fresh water	Yes	2	No	
			Flow analysis/Spectrometry		Sea water	Yes	2	No	
			Flow analysis/Spectrometry		Waste water/Leach water	Yes	2	No	
	Odour	Inhouse method; KM010			Drinking water	Yes	2	No	
	Oxygen saturation	SS-EN 25813	Calculation		Fresh water	Yes	2	No	
			Calculation		Sea water	Yes	2	No	
			Calculation		Waste water/Leach water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Oxygen, dissolved	SS-EN 25813	Titration		Fresh water	Yes	2	No	
			Titration		Sea water	Yes	2	No	
			Titration		Waste water/Leach water	Yes	2	No	
	pH	SS-EN ISO 10523	Electrode		Drinking water	Yes	2	No	
			Electrode		Fresh water	Yes	2	No	
			Electrode		Sea water	Yes	2	No	
			Electrode		Waste water/Leach water	Yes	2	No	
	Phosphate phosphorous	SS-EN ISO 15681-2	Flow analysis/Spectrometry		Drinking water	Yes	2	No	
			Flow analysis/Spectrometry		Fresh water	Yes	2	No	
			Flow analysis/Spectrometry		Sea water	Yes	2	No	
			Flow analysis/Spectrometry		Waste water/Leach water	Yes	2	No	
	Phosphorous, total	SS 028102	Photometry		Waste water/Leach water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Phosphorous, total	SS-EN ISO 15681-2	Flow analysis/Spectrometry		Drinking water	Yes	2	No	
			Flow analysis/Spectrometry		Fresh water	Yes	2	No	
			Flow analysis/Spectrometry		Sea water	Yes	2	No	
			Flow analysis/Spectrometry		Waste water/Leach water	Yes	2	No	
	Salinity	Std Methods 210	Calculation		Fresh water	Yes	2	No	
			Calculation		Sea water	Yes	2	No	
	Sulfate	SS-EN ISO 10304-1	Ion chromatography		Drinking water	Yes	2	No	
			Ion chromatography		Fresh water	Yes	2	No	
			Ion chromatography		Sea water	Yes	2	No	
			Ion chromatography		Waste water/Leach water	Yes	2	No	
		SS-EN ISO 10304-1/SS-EN 14791	Ion chromatography		Absorbent solution	Yes	2	No	
	Suspended solids	SS-EN 872	Gravimetry		Fresh water	Yes	2	No	
			Gravimetry		Sea water	Yes	2	No	
			Gravimetry		Waste water/Leach water	Yes	2	No	



## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Suspended solids	SS-EN 872, mod	Gravimetry		Fresh water	Yes	2	No	
			Gravimetry		Sea water	Yes	2	No	
			Gravimetry		Waste water/Leach water	Yes	2	No	
	Suspended solids, Residue of ignition	SS 028112	Gravimetry		Fresh water	Yes	2	No	
			Gravimetry		Sea water	Yes	2	No	
			Gravimetry		Waste water/Leach water	Yes	2	No	
	Total organic carbon, TOC	SS-EN 1484	Combustion		Drinking water	Yes	2	No	
			Combustion		Fresh water	Yes	2	No	
			Combustion		Sea water	Yes	2	No	
			Combustion		Waste water/Leach water	Yes	2	No	
		USP <643>	Combustion		Drinking water	Yes	2	No	
			Combustion		Fresh water	Yes	2	No	
			Combustion		Sea water	Yes	2	No	
			Combustion		Waste water/Leach water	Yes	2	No	
		SS-EN ISO 7027-1	Photometry		Drinking water	Yes	2	No	
			Photometry		Fresh water	Yes	2	No	
			Photometry		Sea water	Yes	2	No	

### Microbiological analysis

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Food analysis	Aerobic microorganisms	NMKL 86			Food	Yes	2	No	
	Bacteria	SS-EN ISO 21187 (IDF 196), BactoScan	Flow cytometry		Milk	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Food analysis	Clostridial spores	Standard Methods for the Examination of Dairy Products, mod			Milk	Yes	2	No	
	Clostridium perfringens	NMKL 95			Food	Yes	2	No	
	Coagulase positive staphylococci	NMKL 66, mod			Food	Yes	2	No	
	Enterobacteriaceae	NMKL 144			Food	Yes	2	No	
	Enterococcus	NMKL 68			Food	Yes	2	No	
	Escherichia coli	NMKL 125, mod			Food	Yes	2	No	
	Listeria monocytogenes, qualitative	VIDAS Xpress LMX			Food	Yes	2	No	
	Listeria monocytogenes, quantitative	NMKL 136			Food	Yes	2	No	
	Listeria spp, qualitative	VIDAS® UP Listeria (LPT)			Milk	Yes	2	No	
	Moulds and yeasts	NMKL 98			Food	Yes	2	No	
	Presumptive Bacillus cereus	NMKL 67			Food	Yes	2	No	
	Salmonella	NMKL 71			Food	Yes	2	No	
		VIDAS SLM			Food	Yes	2	No	
		VIDAS® UP Salmonella (SPT)			Food	Yes	2	No	
	Somatic Cells	SS-EN ISO 13366-2	Flow cytometry		Milk	Yes	2	No	
	Thermomresistant bacteria	Standard Methods for the Examination of Dairy Products			Milk	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Water analysis	Actinomycetes	SS 028212			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
	Coliform bacteria	SS 028167			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
		SS-EN ISO 9308-2			Drinking water	Yes	2	No	
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Water analysis	Escherichia coli	SS 028167			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
		SS 028167, mod / SS-EN ISO 9308-1/AC			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
		SS-EN ISO 9308-2			Drinking water	Yes	2	No	
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Water analysis	Intestinal enterococci	SS-EN ISO 7899-2			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
	Microfungi, membrane filtration	SS 028192			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
	Presumptive Clostridium perfringens	SS-EN ISO 14189			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
					Fresh water	Yes	2	No	
	Pseudomonas aeruginosa	SS-EN ISO 16266			Drinking water	Yes	2	No	
					Fresh water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Water analysis	Salmonella	SS-EN ISO 19250			Drinking water	Yes	2	No	
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
	Slowgrowing bacteria 22°C 7d	SS-EN ISO 6222, mod 7d			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
	Thermotolerant coliform bacteria	SS 028167			Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
	Total count of culturable bacteria 35°C, 2 days	SS-EN ISO 6222			Fresh water	Yes	2	No	

## Appendix 1

Date

Reference

2023-11-30

2022/1124

Technical area	Parameter	Method	Technique	Measure	Material	Flex	Type of flex	Field	Note
Water analysis	Total count of culturable micro-organisms 22°C, 3 days	SS-EN ISO 6222			Drinking water	Yes	2	No	
					Drinking water	Yes	2	Yes	Mobil enhet (fordon)/mobile unit (vehicle). Avläsning på huvudlaboratoriet /Counting at main laboratory.
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	
	Total count of culturable micro-organisms 36°C, 2 days	SS-EN ISO 6222			Drinking water	Yes	2	No	
					Fresh water	Yes	2	No	
					Sea water	Yes	2	No	
					Waste water/Leach water	Yes	2	No	

Changes in the scope of accreditation are in bold.

The scope of accreditation is flexible as specified in this decision. The accredited body must always retain a current list of the scope for which it is accredited.

Type of flexible scope

- 1: - Introduce new version of standard method and make editorial changes to non-standard method
- 2: - Introduce new version of standard method and make editorial changes to non-standard method - Introduce new version and modifications of non-standard method. The procedure must be equivalent - Introduce new parameter/component/characteristics - Introduce new measurement range - Introduce new material/new products/matrices - Introduce new method equivalent to methods already in the accreditation decision