

Date

Reference

2024-06-24

2023/1159

**Scope of accreditation**

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

SGS Analytics Sweden AB

Karlstad

Accreditation number

1006

Karlstad

A001119-003

**Biological examinations**

| <i>Technical area</i> | <i>Parameter</i>    | <i>Method</i>          | <i>Technique</i> | <i>Material</i>         | <i>Flex</i> | <i>Type of flex</i> | <i>Field</i> |
|-----------------------|---------------------|------------------------|------------------|-------------------------|-------------|---------------------|--------------|
| Water analysis        | Toxicitet, Microtox | SS-EN ISO 11348-3, mod | Bioluminiscens   | Fresh water             | Yes         | 2                   | No           |
|                       |                     |                        | Bioluminiscens   | Sea water               | Yes         | 2                   | No           |
|                       |                     |                        | Bioluminiscens   | Waste water/Leach water | Yes         | 2                   | No           |

**Chemical analysis**

| <i>Technical area</i> | <i>Parameter</i>                        | <i>Method</i>                   | <i>Technique</i>           | <i>Material</i>         | <i>Flex</i> | <i>Type of flex</i> | <i>Field</i> |
|-----------------------|---|---------------------------------|----------------------------|-------------------------|-------------|---------------------|--------------|
| Water analysis        | Alkalinity                              | SS-EN ISO 9963-2, mod           | 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 | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Biochemical oxygen demand, 7 days, BOD7 | SS-EN ISO 5815-1/SS-EN ISO 5814 | Electrode                  | Fresh water             | Yes         | 2                   | No           |
|                       |   |                                 | Electrode                  | Waste water/Leach water | Yes         | 2                   | No           |

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|-----------------------|--------------------------------|----------------------------|-------------------------|-------------------------|-------------|---------------------|--------------|
| Water analysis        | Chemical oxygen demand, COD-Cr | ISO 15705                  | Photometry              | Fresh water             | Yes         | 2                   | No           |
|                       |                                |                            | Photometry              | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Chemical oxygen demand, COD-Mn | SS 028118                  | Titration               | Drinking water          | Yes         | 2                   | No           |
|                       |                                |                            | Titration               | Fresh water             | Yes         | 2                   | No           |
|                       | Colour                         | SS-EN ISO 7887, del C      | Photometry              | Drinking water          | Yes         | 2                   | No           |
|                       |                                |                            | Photometry              | Fresh water             | Yes         | 2                   | No           |
|                       |                                | SS-EN ISO 7887, del C, mod | Photometry              | Drinking water          | Yes         | 2                   | No           |
|                       |                                |                            | Photometry              | Fresh water             | Yes         | 2                   | No           |
|                       |                                | SS-EN ISO 7887, del D      | Komparator              | Drinking water          | Yes         | 2                   | No           |
|                       |                                |                            | Komparator              | Fresh water             | Yes         | 2                   | No           |
|                       |                                |                            | Komparator              | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Conductivity                   | SS-EN 27888                | Electrode               | Drinking water          | Yes         | 2                   | No           |
|                       |                                |                            | Electrode               | Fresh 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           |
|                       | Dry matter                     | SS 028113                  | Gravimetry              | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Kisel, molybdatreaktivt        | Std Methods 4500 C, D, mod | Photometry              | Drinking water          | Yes         | 2                   | No           |
|                       |                                |                            | Photometry              | Fresh water             | Yes         | 2                   | No           |
|                       |                                |                            | Photometry              | Sea water               | Yes         | 2                   | No           |
|                       | Nitrate nitrogen               | SS-EN ISO 13395            | Calculation             | Drinking water          | Yes         | 2                   | No           |
| Calculation           |                                |                            | Fresh water             | Yes                     | 2           | No                  |              |
| Calculation           |                                |                            | Waste water/Leach water | Yes                     | 2           | No                  |              |

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|-----------------------|---------------------------------------|------------------------|----------------------------|--------------------------------|-------------|---------------------|--------------|
| Water analysis        | 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 | Waste water/Leach water        | Yes         | 2                   | No           |
|                       | Nitrite nitrogen and nitrate nitrogen | SS-EN ISO 13395        | Flow analysis/Spectrometry | Fresh water                    | Yes         | 2                   | No           |
|                       |                                       |                        | Flow analysis/Spectrometry | Waste water/Leach water        | Yes         | 2                   | No           |
|                       | Nitrogen, total                       | SS-EN ISO 11905-1, mod | Flow analysis/Spectrometry | Fresh water                    | Yes         | 2                   | No           |
|                       |                                       |                        | Flow analysis/Spectrometry | Waste water/Leach water        | Yes         | 2                   | No           |
|                       | <b>Nitrogen, total, TNb</b>           | <b>SS-EN ISO 20236</b> | <b>Combustion</b>          | <b>Fresh water</b>             | <b>Yes</b>  | <b>2</b>            | <b>No</b>    |
|                       |                                       |                        | <b>Combustion</b>          | <b>Waste water/Leach water</b> | <b>Yes</b>  | <b>2</b>            | <b>No</b>    |
|                       | Odour                                 | Inhouse method; MB045  |                            | Drinking water                 | Yes         | 2                   | No           |
|                       | Oxygen, dissolved                     | SS-EN 25813            | Titration                  | Drinking water                 | Yes         | 2                   | No           |
|                       |                                       |                        | Titration                  | Fresh water                    | Yes         | 2                   | No           |
| Titration             |                                       |                        | Waste water/Leach water    | Yes                            | 2           | No                  |              |

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|-----------------------|-----------------------|-------------------|----------------------------|-------------------------|-------------|---------------------|--------------|
| Water analysis        | pH                    | SS-EN ISO 10523   | Electrode                  | Drinking water          | Yes         | 2                   | No           |
|                       |                       |                   | Electrode                  | Fresh 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 | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Phosphorous, total    | SS-EN ISO 15681-2 | Flow analysis/Spectrometry | Fresh water             | Yes         | 2                   | No           |
|                       |                       |                   | Flow analysis/Spectrometry | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Sulfid                | SS 028115         | Colorimetry                | Drinking water          | Yes         | 2                   | No           |
|                       |                       |                   | Colorimetry                | Fresh water             | Yes         | 2                   | No           |
|                       |                       | SS 028117         | Colorimetry                | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Suspended solids      | SS-EN 872         | Gravimetry                 | Fresh water             | Yes         | 2                   | No           |
|                       |                       |                   | Gravimetry                 | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Transmittans          | NS 9462           | Photometry                 | Drinking water          | Yes         | 2                   | No           |
|                       |                       |                   | Photometry                 | Fresh water             | Yes         | 2                   | No           |

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|-----------------------|------------------|------------------|------------------|-------------------------|-------------|---------------------|--------------|
| Water analysis        | Turbidity        | SS-EN ISO 7027-1 | Nephelometry     | Drinking water          | Yes         | 2                   | No           |
|                       |                  |                  | Nephelometry     | Fresh water             | Yes         | 2                   | No           |
|                       |                  |                  | Nephelometry     | Waste water/Leach water | Yes         | 2                   | No           |

**Microbiological analysis**

| <i>Technical area</i> | <i>Parameter</i>                 | <i>Method</i>                     | <i>Technique</i> | <i>Material</i>         | <i>Flex</i> | <i>Type of flex</i> | <i>Field</i> |
|-----------------------|----------------------------------|-----------------------------------|------------------|-------------------------|-------------|---------------------|--------------|
| Molecular biology     | Legionella pneumophila & species | BioRad iQ-Check                   | PCR              | Drinking water          | Yes         | 2                   | No           |
|                       |                                  |                                   | PCR              | Fresh water             | Yes         | 2                   | No           |
| Water analysis        | Actinomycetes                    | SS 028212                         |                  | Drinking water          | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Fresh water             | Yes         | 2                   | No           |
|                       | Coliform bacteria                | SS 028167                         |                  | Drinking water          | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Fresh water             | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Waste water/Leach water | Yes         | 2                   | No           |
|                       | Escherichia coli                 | SS-EN ISO 9308-2                  |                  | Drinking water          | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Fresh water             | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Waste water/Leach water | Yes         | 2                   | No           |
|                       |                                  | SS 028167, mod / SS-EN ISO 9308-1 |                  | Drinking water          | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Drinking water          | Yes         | 2                   | No           |
|                       |                                  |                                   |                  | Fresh water             | Yes         | 2                   | No           |

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|----------------------------------|-------------------------------------|------------------------|-------------------------|-------------------------|-------------|---------------------|--------------|
| Water analysis                   | Intestinal enterococci              | SS-EN ISO 7899-2       |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Fresh water             | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Sea water               | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Waste water/Leach water | Yes         | 2                   | No           |
|                                  | Legionella                          | SS-EN ISO 11731        |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Fresh water             | Yes         | 2                   | No           |
|                                  | Microfungi, membrane filtration     | SS 028192              |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Fresh water             | Yes         | 2                   | No           |
|                                  | Presumptive Clostridium perfringens | SS-EN ISO 14189        |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Fresh water             | Yes         | 2                   | No           |
|                                  | Pseudomonas aeruginosa              | SS-EN ISO 16266        |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Fresh water             | Yes         | 2                   | No           |
|                                  | 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    |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        |                         | Fresh water             | Yes         | 2                   | No           |
|                                  | Somatiska kolifager                 | SS-EN ISO 10705-2      |                         | Waste water/Leach water | Yes         | 2                   | No           |
|                                  |                                     | SS-EN ISO 10705-2, mod |                         | Drinking water          | Yes         | 2                   | No           |
|                                  |                                     |                        | Fresh water             | Yes                     | 2           | No                  |              |
| Thermotolerant coliform bacteria | SS 028167                           |                        | Drinking water          | Yes                     | 2           | No                  |              |
|                                  |                                     |                        | Fresh water             | Yes                     | 2           | No                  |              |
|                                  |                                     |                        | Waste water/Leach water | Yes                     | 2           | No                  |              |

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|--|--|---------------------|------------------|-----------------|-------------|---------------------|--------------|
| Water analysis   | Total count of culturable bacteria 35°C, 2 days        | SS-EN ISO 6222      |                  | Fresh water     | Yes         | 2                   | No           |
|  | Total count of culturable micro-organisms 22°C, 3 days | SS-EN ISO 6222      |                  | Drinking water  | Yes         | 2                   | No           |
|  |  |                     |                  | Fresh water     | Yes         | 2                   | No           |
|  | Total count of culturable micro-organisms 30°C, 2 days | SS-EN ISO 6222      |                  | Fresh water     | Yes         | 2                   | No           |
|  | Total count of culturable micro-organisms 36°C, 1 day  | SS-EN ISO 6222, mod |                  | Drinking water  | Yes         | 2                   | No           |
|  |  |                     |                  | Fresh 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                  |              |

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