

# A simplified solution for analyzing anions in drinking water

Monitoring of various water sources, such as surface water, groundwater and drinking water, for anions is critical to protecting public health and ensuring a safe and clean environment.

Doing so right at the source water or the drinking water facility is very beneficial because results will be obtained much faster and treatment processes can be adjusted and modified faster.

## Sources of anions in drinking water



## Ion chromatography provides many advantages:

- Multiple ions separated, identified and quantified
- Applicable to a wide variety of ions and changed molecules
- Many methods are directly injected with no manual preparation
- Very sensitive ppm to ppb levels; even lower depending on detection methods
- Most common and widely accepted method for measuring anions in drinking water

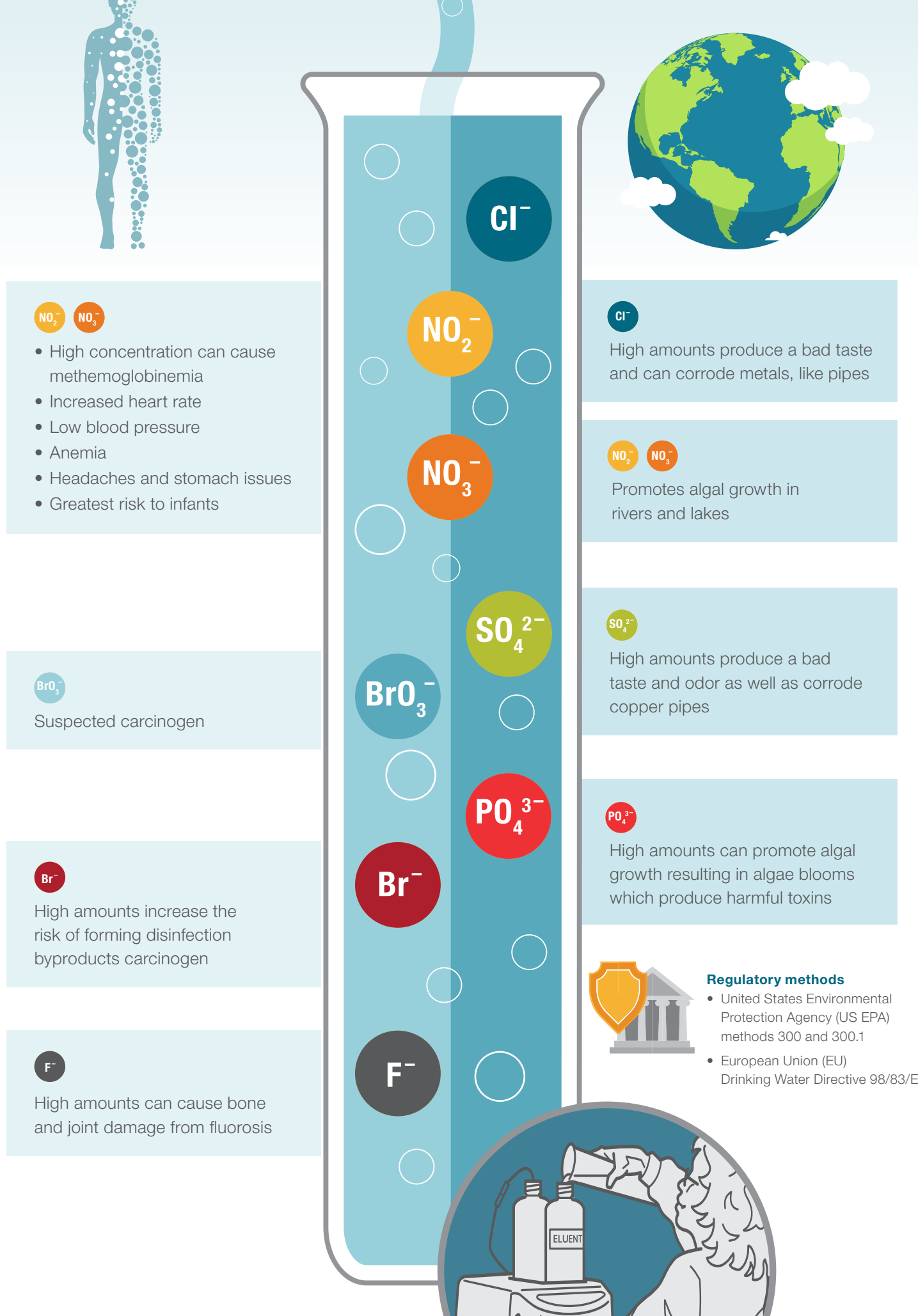
### Discrete analyzers—complementary method

- Suitable for multiparameter analyzer
- Simultaneous pH and conductivity measurement
- High throughput with ease of use

### Methods for monitoring

- Titration**
  - Determination of selected ions at percent levels
  - Regulatory limits and MCLs are typically lower
- Discrete Industrial Analysis (DIA)/ Flow Injection Analysis (FIA)/ Segmented Flow Analysis (SFA)**
  - Limited by number of channels
  - Harsh carcinogenic chemicals like cadmium coil
  - Labor intensive and needs expert users
- Ion-selective electrodes**
  - Prone to interferences
  - Limited shelf life
  - Multiple methods required. Periodic calibration and maintenance.

## Anions are monitored to prevent adverse health and environmental impacts



## Thermo Scientific™ Dionex™ Easion™ Ion Chromatography System

### Anion analysis made easy

- Smallest benchtop Ion Chromatography (IC) system—more room available in your lab
- Thermo Scientific™ Dionex™ Easion™ Anion Analysis Kits—everything needed for anion analysis in water
- Single PEEK flow path and worry-free membrane-based suppressor—increases robustness and makes IC usage very straightforward
- Prepare only two solutions need to by simple dilution of concentrates—set up is simple
- No auxiliary or peristaltic pumps required—reduces complexity and maintenance effort
- Simple, easy-to-use and robust—the small IC with big value



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