

Kohler Co., Chemical & Metallurgical Lab
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Industrial Environmental Lab

Matrix: **Aqueous**

Oxygen Demand assays (BOD or cBOD)

- Biochemical Oxygen Demand (BOD)

Colorimetric or Nephelometric (turbidimetric)

- Alkalinity
- Chemical Oxygen Demand
- Chloride
- Cyanide, Amenable
- Cyanide, Total
- Nitrate
- Nitrite
- Orthophosphate
- Phenolics, Total
- Phosphorus, Total
- Sulfate

Electrometric Assays (probe, ISE)

- Fluoride

Gravimetric Assays - Residue (solids)

- Residue, Filterable (TDS)
- Residue, Nonfilterable (TSS)
- Residue, Total

Gravimetric Assays - Hexane Extractable Materials (HEM)

- Oil&Grease, Hexane Ext. Material

Ion Chromatography (IC)

- Bromide
- Chloride
- Fluoride
- Nitrate
- Nitrite
- Orthophosphate
- Sulfate

Titrimetric or Potentiometric Titration Assays

- Alkalinity
- Ammonia as N
- Chloride
- Hardness, Total as CaCO₃
- Kjeldahl Nitrogen, Total

Inductively Coupled Plasma Emission Spectrometry (ICP)

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Copper
- Hardness, Total as CaCO₃
- Iron
- Lead
- Magnesium
- Manganese
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Zinc

Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Zinc

Gas Chromatography-Mass Spectrometry (GC/MS)

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Thermal Decomposition Atomic Absorption

- Mercury

Matrix: **Drinking Water**

Primary Inorganic Contaminants (Non-Metals)

- Fluoride - EPA 300.0
- Nitrate - EPA 300.0
- Nitrate - EPA 353.2
- Nitrate + Nitrite - EPA 353.2
- Nitrite - EPA 300.0
- Nitrite - EPA 353.2

Primary Inorganic Contaminants (Metals)

- Antimony - EPA 200.8
- Arsenic - EPA 200.8
- Barium - EPA 200.8
- Beryllium - EPA 200.8
- Cadmium - EPA 200.8
- Chromium - EPA 200.8
- Copper - EPA 200.8
- Lead - EPA 200.8
- Mercury - EPA 200.8
- Nickel - EPA 200.8
- Selenium - EPA 200.8
- Thallium - EPA 200.8

Secondary Contaminants (Non-Metals)

- Sulfate - EPA 300.0

Matrix: **Solid**

Colorimetric or Nephelometric (turbidimetric)

- Chloride
- Cyanide, Amenable
- Cyanide, Total
- Nitrate
- Nitrite
- Orthophosphate
- Phenolics, Total
- Phosphorus, Total
- Sulfate

Electrometric Assays (probe, ISE)

- Fluoride

Gravimetric Assays - Residue (solids)

- Residue, Total
- #### Ion Chromatography (IC)

- Bromide
- Chloride
- Fluoride
- Nitrate
- Nitrite
- Orthophosphate
- Sulfate

Titrimetric or Potentiometric Titration Assays

- Chloride
- Kjeldahl Nitrogen, Total

Inductively Coupled Plasma Emission Spectrometry (ICP)

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Nickel
- Phosphorus, Total
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Zinc

Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Calcium
- Chromium (Total)
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Zinc

Gas Chromatography-Mass Spectrometry (GC/MS)

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Waste Characterization Extractions

- TCLP Extraction

Waste Characterization Assays

- Ignitability of Solids

- Ignitability, Pensky-Martens Closed Cup
- Thermal Decomposition Atomic Absorption
- Mercury