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Inspection Agency AA-803 (Type A)

has met the requirements of AC98, *IAS Accreditation Criteria for Inspection Agencies*, and has demonstrated compliance with ISO/IEC Standard 17020:2012, *Conformity assessment - Requirements for the operation of various types of bodies performing inspection*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date July 1, 2025

Effective Date December 20, 2024



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ALS LIFE SCIENCE CHILE S.A. – GERENCIA DE OPERACIONES

www.alsglobal.com

Contact Name Roberto Gutierrez

Contact Phone +56 951892116

Accredited to ISO/IEC 17020:2012

Effective Date December 20, 2024

Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Drinking water	
Sampling	QWI-MM/01 Issue A, mod.2 Based on: NCh409 / 2: 2004 Drinking water - Part 2: Sampling ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3. of 2014 Water quality - Samplin
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement - Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement - Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Determination - Odor	ME-25-2024, Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - pH	ME-29-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Electrometric method
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Determination - Taste	ME-26-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement - Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Turbidity	ME-03-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Nephelometric Method
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D 3858 – 95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Groundwater	
Sampling	QWI-MM/03 Issue A, mod.2 Based on: NCh411 / 11: 2022 Water quality - Sampling - Part 11: Groundwater sampling guide ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - Phreatic Level measurement	ASTM D4750-2001 Standard Test Method for Determining Subsurface Liquid Levels in a Borehole or Monitoring Well
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – pH Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Temperature Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Aquatic Sediment (From rivers and estuarine areas)	
Sampling	QWI-MM/35 Issue A, mod.2 Based on:
Measurement – pH	ISO 5667-12:2017 Water quality -- Sampling-- Part 12: Guidance on sampling of bottom sediments from rivers, lakes and estuarine areas
Measurement – Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 10500 B
Measurement - Temperature	R.E. 1917/2023 modifies resolution No. 3612 of 2009, which established the methodologies to prepare the CPS and the INFA, to be applied to small-scale aquaculture farmers, in accordance with article 21 of D.S. N°45 of 2021, from the Ministry of Economy, Development and Tourism Manufacturers Manual of Multiparameter
Marine Sediment	
Sampling	QWI-MM/35 Issue A, mod.2 Based on:
Measurement - pH	NCh411 / 19: 2017 Water quality - Sampling - Part 19: Guide for sampling marine sediments
Measurement - Redox Potential (ORP)	Standard Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 10500 B
Measurement - Temperature	R.E 1917/2023 modifies resolution No. 3612 of 2009, which established the methodologies to prepare the CPS

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
	and the INFA, to be applied to small-scale aquaculture farmers, in accordance with article 21 of D.S. N°45 of 2021, from the Ministry of Economy, Development and Tourism Manufacturers Manual of Multiparameter
Lacustrine Sediments (From lakes, natural and manmade)	
Sampling	QWI-MM/35 Issue A, mod.2 Based on:
Measurement - pH	ISO 5667-12:2017 Water quality -- Sampling-- Part 12: Guidance on sampling of bottom sediments from rivers, lakes and estuarine areas
Measurement - Redox Potential (ORP)	Standard Methods for the Examination of Water and Wastewater, 24 th Edition, 2023, 10500 B
Measurement - Temperature	R.E.1917/2023 modifies resolution No. 3612 of 2009, which established the methodologies to prepare the CPS and the INFA, to be applied to small-scale aquaculture farmers, in accordance with article 21 of D.S. N°45 of 2021, from the Ministry of Economy, Development and Tourism Manufacturers Manual of Multiparameter
Sea water	
Sampling	QWI-MM/04 Issue A, mod.3 Based on: ISO 5667-9:1992 Water quality -- Sampling-- Part 9: Guidance on sampling from marine waters ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Transparency	QWI-MM/36 Issue A Mod.2 Based on: DGA-LGOCL20 / 2009: DGA-Transparency Internal Analysis Method
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Sources of uptake	
Sampling	QWI-MM/01 Issue A, mod.2 Based on: NCh409 / 2: 2004 Drinking water - Part 2: Sampling ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples
Measurement - Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-CI-G
Measurement - Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-CI-G
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement - Phreatic Level measurement	ASTM D4750-2001 Standard Test Method for Determining Subsurface Liquid Levels in a Borehole or Monitoring Well
Determination - Odor	ME-25-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement - pH	ME-29-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Electrometric method
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Determination - Taste	ME-26-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Organoleptic method
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Turbidity	ME-04-2024 Superintendence of Sanitary Services Manual of Test Methods for Drinking Water - Nephelometric Method
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Surface water from lakes	
Sampling	QWI-MM/04 Issue A, mod.3 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh-ISO5667/6: 2015 Water quality - Sampling - Part 6: Guide for sampling rivers and waterways
Surface water from rivers and streams	
Sampling	QWI-MM/04 Issue A, mod.3 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
	NCh-ISO5667/6: 2015 Water quality - Sampling - Part 6: Guide for sampling rivers and waterways
Surface water (Rivers and Streams, Lakes)	
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement - Flow	QWI-MM / 16 Issue A, mod.1 Based on: NCh411 / 10 Of.2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010 NCh3205: 2011 Wastewater Flowmeters - Requirements
Measurement - Water Level	ASTM D5413 - 93(2013) Standard Test Methods for Measurement of Water Levels in Open-Water Bodies
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – pH Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Temperature Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Transparency	QWI-MM/36 Issue A Mod.0 Based on: DGA-LGO TR1 / 2009: DGA-Transparency Internal Analysis Method

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Wastewater	
Automatic and manual Sampling	QWI-MM/02 Issue A, mod.4 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples NCh411 / 10.Of2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual-2010
Measurement – Alkalinity	QWI-MM/40 (Issue A Modification 0) Alkalinity measurement
Measurement - Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement - Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B
Measurement - Flow measurement	QWI-MM / 16 Issue A, mod.1 Based on: NCh411 / 10 Of.2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010 NCh3205: 2011 Wastewater Flowmeters - Requirements
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - pH	NCh2313/1:2021 Wastewater - Methods of Analysis - Part 1: Determination of pH
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement – pH Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement - Settling Solids	NCh2313 / 4.Of95 Waste water - Methods of analysis - Part 4: Determination of settleable solids - Volumetric method
Measurement - Settling Solids	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2540 F
Measurement - Temperature	NCh2313 / 2.Of95 Wastewater - Analysis Methods - Part 2: Temperature Determination
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement – Temperature Online	QWI-MM/02 (Issue A Modification 5) Sampling of wastewater
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Water for industrial purposes	
Automatic and manual Sampling	QWI-MM/02 Issue A, mod.4 Based on: ISO 5667-1:2023 Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques NCh411 / 3.Of 2014 Water quality - Sampling - Part 3: Guidance on the preservation and handling of samples NCh411 / 10.Of2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010
Measurement - Free residual chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement - Total chlorine	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-Cl-G
Measurement - Conductivity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2510-B

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement – Floating matter and unnatural foams	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement – Floating oils and fats	QWI-MM/41 (Issue A Modification 0) Sampling Fats and oils, determination of floating matter and unnatural foams
Measurement - Flow	QWI-MM / 16 Issue A, mod.1 Based on: NCh411 / 10 Of.2005 Water quality - Sampling - Part 10: Wastewater sampling - Collection and handling of samples Superintendence of Sanitary Services Operational Manual -2010 NCh3205: 2011 Wastewater Flowmeters - Requirements
Measurement - Phreatic Level	ASTM D4750-2001 Standard Test Method for Determining Subsurface Liquid Levels in a Borehole or Monitoring Well
Measurement - Dissolved oxygen	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500-O G
Measurement - pH	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 4500 H + B
Measurement - Redox Potential (ORP)	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2580 B
Measurement - Residual free chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Measurement - Salinity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023, 2520 B
Measurement - Temperature	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2550 B
Measurement - Total chlorine	QWI-MM/06 (Issue A Modification 2) Handling of chlorimeter and measurement of chlorine on field
Total Dissolved Solids (TDS)	QWI-MM/09 Issue A, mod.1 Based on: Manufacturer's Manual - YSI / Hanna / HACH Multiparameter Equipment
Measurement – Total Suspended Solids	QWI-MM/42 (Issue A Modification 0) Measurement of Total Suspended Solids on field
Measurement - Turbidity	Standards Methods for the Examination of Water and Wastewater, 24th Edition, 2023 2130-B
Measurement – Water Flow	ASTM D3858-95(2014) Standard test method for Open-Channel flow measurement of Water by velocity-Area Method
Sludge	
Sampling	QWI-MM / 05 Issue A Mod.5 QWI-MM / 13 Issue A Mod.3 Based on: ISO 5667-13:2011 Water quality -- Sampling-- Part 13: Guidance on sampling of sludges
Measurement – Oxidation – Reduction Potential	QWI-MM/05 ((Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Measurement – pH	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Temperature	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Soils	
Sampling	QWI-MM / 05 Issue A Mod.5 QWI-MM / 13 Issue A Mod.3 Based on: NCh3400 / 1: 2016 Soil quality - Sampling - Part 1: Guidelines for the design of sampling programs NCh3400 / 2: 2016 Soil quality - Sampling - Part 2: Guidelines on sampling techniques
Measurement – Oxidation – Reduction Potential	QWI-MM/05 ((Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – pH	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Temperature	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Compost	
Sampling	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Oxidation – Reduction Potential	QWI-MM/05 ((Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – pH	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Measurement – Temperature	QWI-MM/05 (Issue A Modification 5) Sampling of Soils, Sludges, Compost, Solid Wastes & different types of Solids
Solid Waste, Dangerous Solid Waste and Industrial Solid Waste	
Sampling	QWI-MM/05 Issue A Mod.5 QWI-MM/13 Issue A Mod.3 QWI-MM/33 Issue A Mod.2 Based on: Technical guide for sampling of hazardous waste, MINSAL

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
	DS N ° 148/2004 MINSAL Health Regulations on Hazardous Waste Management EPA SW-846 Hazardous Waste Test Methods Compendium (On-line) ASTM D6009-2018 Standard Guide for Sampling Waste Piles EPA 530-D-02-002 RCRA Waste Sampling Draft Technical Guidance
Breatheable Particulate Matter (PM10) on environmental and personal filters	
Sampling (continuous and discrete)	QWI-MM/24 Issue A, mod.1 Based on: EPA/625/R-96/010a IO-2.1 Sampling of ambient air for total suspended Particulate matter (SPM) and PM10 using High volume (HV) sampler EPA/625/R-96/010a IO-2.3 Sampling of ambient air for PM10 concentration using the Rupprecht and Patashnick (R&P) low volume Partisol® sampler
Breatheable Particulate Matter (PM2.5) on environmental and personal filters	
Sampling (continuous and discrete)	QWI-MM/23 Issue A, mod.1 Based on: EPA/625/R-96/010a IO-2.1 Sampling of ambient air for total suspended Particulate matter (SPM) and PM10 using High volume (HV) sampler EPA/625/R-96/010a IO-2.3 Sampling of ambient air for PM10 concentration using the Rupprecht and Patashnick (R&P) low volume Partisol® sampler
Settleable Particulate Matter on environmental filters	
Sampling (continuous and discrete)	QWI-MM/25 Issue A, mod.1 Based on: ASTM D1739 - 98(2017) Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter)
Particulate Matter	
Sampling – Condensable Particulate Matter	EPA Method 202 — Dry impinger method for determining condensable particulate emissions from stationary sources, 2017
Sampling – Formaldehyde Sampling and Analysis in Mineral, Wool, and Fiberglass industries	EPA Method 316 — Sampling and analysis for formaldehyde emissions from stationary sources in the mineral wool and wool fiberglass industries, 2020
Sampling – Particulate Material	CH-5 Method: Determination of Particulate Emissions from Stationary Sources, Rev. 3 (2020)
Sampling – Particulate Material	EPA Method 5 — Determination of particulate matter emissions from stationary sources, 2020

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Sampling – Particulate Matter in Stationary Sources (without heating)	EPA Method 17 — Determination of particulate matter emissions from stationary sources, 2017
Sampling – PM10 and PM2.5	EPA Method 201A — Determination of PM10 and PM2.5 emissions from stationary sources (constant sampling rate procedure), 2020
Gases	
Measurement – Carbon Monoxide	Method CH-10: Determination of carbon monoxide emissions from stationary sources, Rev.1, 1998.
Measurement – Carbon Monoxide	EPA Method 10 — Determination of carbon monoxide emissions from stationary sources (instrumental analyzer procedure), 2017
Measurement – Nitrogen Oxides	Method CH-7E: Determination of Nitrogen Oxide Emissions from Stationary Sources (Instrumental Analyzer Procedure), Rev.1, 1996
Measurement – Nitrogen Oxides	EPA Method 7E — Determination of nitrogen oxides emissions from stationary sources (instrumental analyzer procedure), 2023
Measurement – Sulfur Dioxide	Method CH-6C: Determination of Sulfur Dioxide Emissions from Stationary Sources (Instrumental Analyzer Procedure), Rev.1, 1996
Measurement – Sulfur Dioxide	EPA Method 6C — Determination of sulfur dioxide emissions from stationary sources (instrumental analyzer procedure), 2017
Measurement – Determination of COV Concentration (Flame Ionization)	Method CH-25A: Determination of the concentration of total volatile organic compounds by a flame ionization analyzer, Rev.1, 1998
Measurement – Determination of COV Concentration (Flame Ionization)	EPA Method 25A — Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer 2017
Sampling – Ammonia	EPA Method CTM 027 — Procedure for Collection and analysis of ammonia in stationary sources, 1997
Sampling – Determination of COV Emissions from Stationary Sources (Gas Chromatography)	Method CH-18: Measurements of Volatile Organic Compound Emissions by Gas Chromatography, Rev.1 (1998)
Sampling – Determination of COV Emissions from Stationary Sources (Gas Chromatography)	EPA Method 18 — Measurement of gaseous organic compound emissions by gas chromatography, 2019.
Sampling – Hydrogen Halide, Halogen Emissions: Total Bromine, Hydrogen Bromide, Total Chlorine, Hydrogen Chloride, Hydrogen Fluoride	Method CH-26A: Determination of Hydrogen Halide and Halogen Emissions from a Stationary Source, Isokinetic Method, Rev.1, 2010
Sampling – Hydrogen Halide, Halogen Emissions: Total Bromine, Hydrogen Bromide, Total Chlorine, Hydrogen Chloride, Hydrogen Fluoride	EPA Method 26A — Determination of hydrogen halide and halogen emissions from stationary sources isokinetic method, 2020
Sampling – Sulfuric Acid, Sulfur Dioxide, Sulfur Trioxide Acid	EPA Method 8 — Determination of sulfuric acid and sulfur dioxide emissions from stationary sources, 2019
Sampling – Total Reduced Sulfur Emissions (TRS) with Impinger: Sulfur Dioxide, Carbon Disulfide, Methyl Disulfide, Methyl Mercaptan, Carbonyl Sulfide, Dimethyl Sulfide, Hydrogen Sulfide	EPA Method 16A — Determination of total reduced sulfur emissions from stationary sources (impinger technique), 2017

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Sampling – Total Reduced Sulfur Emissions (TRS): Sulfur Dioxide, Methyl Disulfide, Methylmercaptan, Dimethyl Sulfide, Hydrogen Sulfide	EPA Method 16B — Determination of total reduced sulfur emissions from stationary sources, 2020
Gases – Particulate Matter	
Measurement – Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)	EPA Method 2C—determination of gas velocity and volumetric flow rate in small stacks or ducts (standard pitot tube), 2017
Measurement – Direct Measurement of Gas Volume through Pipes and Small Ducts	Method CH-2A: Direct Gas Volume Measurements in Stacks and Small Ducts, Rev.1, 1996
Measurement – Direct Measurement of Gas Volume through Pipes and Small Ducts	EPA Method 2A—Direct measurement of gas volume through pipes and small ducts, 2017
Measurement – Flow Velocity and Volumetric Flow in Chimney Gases	Method CH-2: Determination of velocity and volumetric flow in stack gases (Pitot tube type S), Rev.1, 1996.
Measurement – Flow Velocity and Volumetric Flow in Chimney Gases	EPA Method 2—Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube), 2017
Measurement – Gas Analysis for Determining Correction Factor of Emission Velocity or Air Excess	CH-3B Method: Gas Analysis to Determine Emission Velocity or Excess Air Correction Factor, Rev.1, 1996
Measurement – Gas Analysis for Determining Correction Factor of Emission Velocity or Air Excess	EPA Method 3B—Gas analysis for the determination of emission rate correction factor or excess air, 2017.
Measurement – Gas Analysis for Dry Molecular Weight Determination	Method CH-3: Gas Analysis for Dry Molecular Weight Determination, Rev.1, 1996
Measurement – Gas Analysis for Dry Molecular Weight	EPA Method 3—Gas analysis for the determination of dry molecular weight, 2017
Measurement – Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)	Method CH-2C: Determination of velocity and volumetric flow in small stacks and ducts (standard pitot tube), Rev.1, 1996
Measurement – Gas Volume Flow Rates in Small Pipes and Ducts	CH-2D Method: Gas Volumetric Flow Measurements in Chimneys and Small Ducts, Rev.1, 1996
Measurement – Gas Volume Flow Rates in Small Pipes and Ducts	EPA Method 2D—Measurement of gas volume flow rates in small pipes and ducts, 2017
Measurement – Humidity Content in Chimney Gases	Method CH-4: Determination of moisture content in chimney gases, Rev.1, 1996.
Measurement – Humidity Content in Chimney Gases	EPA Method 4—Determination of moisture content in stack gases, 2023
Measurement – Oxygen, Carbon Dioxide, Carbon Monoxide	Method CH-3A: Determination of Oxygen, Carbon Anhydride and Carbon Monoxide Concentrations in Stationary Source Emissions (Instrumental Analyzer Procedure), Rev.1, 1996
Measurement – Oxygen, Carbon Dioxide, Carbon Monoxide	EPA Method 3A—Determination of oxygen and carbon dioxide concentrations in emissions from stationary sources (instrumental analyzer procedure), 2017
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources	Method CH-1: Location of Sampling and Velocity Measurement Points for Fixed Sources, Rev.1, 1996
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources	EPA Method 1—Sample and Velocity Traverses for Stationary Sources, 2023

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Fields and Range of Inspections	Regulations, Inspection Methods, Standards and/or Specifications)
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources with Small Stacks or Ducts	Method CH-1A: Sampling and Velocity Transverse for Chimneys or Small Ducts, Rev.1, 1996
Sample and Velocity Traverses (Sampling Point Identification) for Stationary Sources with Small Stacks or Ducts	EPA Method 1A—Sample and velocity traverse, 2017
Sampling – Metals in Particulate Matter	CH-29 Method, Rev1 2010 Determination of metal emission from stationary sources
Sampling – Metals in Particulate Matter	EPA Method 29 2016
Sampling – Polychlorinated Dibenzene-p-dioxins, Polychlorinated Dibenzofurans	CH-23 Method: Determination of Polychlorinated Dibenzop-Dioxins and Polychlorinated Dibenzofurans
Sampling –Polychlorinated Dibenzene-p-dioxins, Polychlorinated Dibenzofurans	Method EPA 23 2014
Noise	
Inspection - Noise Control Actions	QWI-MM/46 (Issue A Modification 0) Inspection of noise control actions
Inspection - Verification of Noise Control Actions	QWI-MM/47 (Issue A Modification 0) Verification of noise related procedures
Inspection - Verification of Noise Measurements.	QWI-MM/47 (Issue A Modification 0) Verification of noise related procedures
Measurement – Equivalent Sound Pressure Level (LEQ)	QWI-MM/45 (Issue A Modification 0) Technical Procedure for Measuring Noise
Measurement – Sound Pressure Level Corrected (NPC)	DS N°38/11 MMA (Ministry of the Environment) - Emission Standard for Noise Generated by Sources Indicating

