



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

**SANGUESA Y ASOCIADOS LIMITADA**

LOS MOLINOS 747  
QUILPUE, 2420000, CHILE

**Inspection Agency AA-824 (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 April 1, 2025

Effective Date May 17, 2024



A handwritten signature in black ink, reading "Raj Nathan".

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## SANGUESA Y ASOCIADOS LIMITADA

[www.syagroupchile.com](http://www.syagroupchile.com)

**Contact Name** René Díaz

**Contact Phone** +56 952171114

*Accredited to ISO/IEC 17020:2012*

*Effective Date May 17, 2024*

Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
<b>Seawater</b>	
Sampling	NCh411/9:1997. Part 9. Marine Water Sampling Guide
In situ - Measurement of Redox Potential	Standard Methods for the Examination of Water and Wastewater, 2580 B. 24 <sup>th</sup> Edition
In situ - Salinity	Standard Methods for the Examination of Water and Wastewater, 2520 B. 24 <sup>th</sup> Edition
Field Transparency Measurement	IUDC v05 Disk Use Secchi
In situ - pH measurement	Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition
In situ - Measurement of dissolved oxygen	Standard Methods for the Examination of Water and Wastewater, 4500-0 G. Membrane Electrode Method. O Oxygen (Dissolved). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF.
In situ - Measurement of dissolved oxygen	IUSM v05 Using Multiparameter Probe Based on Standard Methods for the Examination of Water and Wastewater, 4500-0 G. Membrane Electrode Method. O Oxygen (Dissolved). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF
In situ - Temperature Measurement	Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition
In situ - Measurement of Residual Free Chlorine	IMCLB v.05 Residual Free Chlorine Measurement Based on ISO Guide ISO 7393-2:2017
In situ - Measurement of Redox Potential	2580 B. Oxidation-Reduction Potential Measurement in Clean Water. Oxidation-Reduction Potential (ORP). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF.
<b>Groundwater</b>	
Sampling	NCh411/11:2022. Part 11. Guide to groundwater sampling.
In situ - Measurement of dissolved oxygen	IUSM v05 Using Multiparameter Probe Based on Standard Methods for the Examination of Water and Wastewater, 4500-0 G. Membrane Electrode

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Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
	Method. O Oxygen (Dissolved). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF
In situ - pH measurement	Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition
Measurement of dissolved oxygen	Standard Methods for the Examination of Water and Wastewater, 4500-0 G. 24 <sup>th</sup> Edition
In situ - Temperature Measurement	Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition
In situ - Salinity	Standard Methods for the Examination of Water and Wastewater, 2520 B. 24 <sup>th</sup> Edition
In situ - Measurement of Redox Potential	IMORP V.05 Measurement of Redox Potential Based on Standard Methods for the Examination of Water and Wastewater, 2580 B. 24 <sup>th</sup> Edition
Phreatic Level	PMNF version 02 Measurement of the water table (in-house procedure)
<b>Surface Water</b>	
Sampling	NCh-ISO 5667/4:2016. Part 4. Guide to Sampling Natural and Artificial Lakes
Sampling	NCh-ISO 5667/6:2015. Part 6: Guide to sampling rivers and watercourses. Water quality - Sampling. 2015. INN.
In situ - pH measurement	Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition
In situ - Measurement of dissolved oxygen	Standard Methods for the Examination of Water and Wastewater, 4500-0 G. 24 <sup>th</sup> Edition
In situ - Flow Measurement	PMCAU V.03 Flow Measurement (Own method)
In situ - Measurement of dissolved oxygen	IUSM v05 Using Multiparameter Probe Based on Standard Methods for the Examination of Water and Wastewater, 4500-0 G. Membrane Electrode Method. O Oxygen (Dissolved). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF
In situ - Temperature Measurement	Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition
In situ - Salinity	Standard Methods for the Examination of Water and Wastewater, 2520 B. 24 <sup>th</sup> Edition
In situ - Measurement of Residual Free Chlorine	IMCLB v.05 Residual Free Chlorine Measurement based on ISO Guide ISO 7393-2:2017

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Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
In situ - Measurement of Redox Potential	IMORP V.05 Measurement of Redox Potential Based on Standard Methods for the Examination of Water and Wastewater, 2580 B. 24 <sup>th</sup> Edition
<b>Wastewater</b>	
Manual and Automatic Sampling	NCh411/10.0f2005. Part 10-Wastewater sampling.
In situ - Temperature Measurement	NCh 2313/2:1995
In situ - Flow measurement	NCh411/10.0f2005. Part 10: Wastewater Sampling-Sample Collection and Management, 7.9
In situ - pH measurement	NCh 2313/1:2021
In situ - Measurement of Residual Free Chlorine	IMCLB v.01 based on ISO Guide ISO 7393-2:2017
<b>Drinking Water</b>	
Sampling	NCh 409/2:2004. Part 2 Muestreo
In situ - pH measurement	IMPH V05 on site pH measurement Based on Standard Methods for the Examination of Water and Wastewater, 4500-H B. 24 <sup>th</sup> Edition
In situ - Temperature Measurement	IMTT v05 on site Temperature measurement Based on Standard Methods for the Examination of Water and Wastewater, 2550 B. 24 <sup>th</sup> Edition
In situ - Measurement of Residual Free Chlorine	IMCLB v.05 Residual Free Chlorine Measurement based on ISO Guide ISO 7393-2:2017
<b>Lake Sediments</b>	
Sampling	PMSED01v04 Based on Standard Methods for the Examination of Water and Wastewater, 1060 B, C. 24 <sup>th</sup> Edition
In situ - Measurement of Redox Potential	IMORP V.05 Measurement of Redox Potential Based on Standard Methods for the Examination of Water and Wastewater, 2580 B. 24 <sup>th</sup> Edition
<b>Aquatic Sediments</b>	
Sampling	PMSED01v04 Sediment Sampling Procedure Based on Standard Methods for the Examination of Water and Wastewater, 1060 B, C. 24 <sup>th</sup> Edition
In situ - Measurement of Redox Potential	IMORP V.05 Measurement of Redox Potential Based on Standard Methods for the Examination of Water and Wastewater, 2580 B. 24 <sup>th</sup> Edition
<b>Marine Sediments</b>	
Sampling	PMSED01v04 Sediment Sampling Procedure Based on Standard Methods for the Examination of Water and Wastewater, 1060 B, C. 24 <sup>th</sup> Edition

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Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
In situ - Measurement of Redox Potential	2580. B. Oxidation-Reduction Potential Measurement in Clean Water. Oxidation-Reduction Potential (ORP). 24 <sup>th</sup> Edition. SM - APHA/AWWA/WEF.
Vessels, Marine Water and Sediment – Carbon Sampling (Shipping)	PMCN version 02 Coal Sampling in Ships (in-house procedure)
Vessels, Marine Water and Sediment – Carbon Sampling (Intermarial and Submarial)	PMCN version Coal Sampling in Ships (in-house procedure)