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CERTIFICATE OF ACCREDITATION

This is to attest that

ECOGESTION AMBIENTAL LTDA.

PROGRESO PASAJE 1 NO 1560, CHIGUAYANTE
CONCEPCION 4100000, CHILE

Testing Laboratory TL-873

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date October 1, 2025
Effective Date January 31, 2024



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

President

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SCOPE OF ACCREDITATION

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ECOGESTION AMBIENTAL LTDA.

www.ecogestionambiental.cl

Contact Name Alex Aguilera

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Accredited to ISO/IEC 17025:2017

Effective Date January 31, 2024

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MARINE CHEMISTRY	Soils, Sediments and Biodiversity	Granulometry in marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	S-EN-01 (Versión 02)
		Total organic matter in marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	S-EN-02 (Versión 02)
		Taxonomy (benthic macrofauna) in marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	S-EN-03 (Versión 02)
		In situ measurements of hydrogen potential in marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	S-ME-01 (Versión 04)
		In situ measurements of temperature in marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	S-ME-01 (Versión 04)
		Sampling of marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine	S-MU-01 (Versión 05)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MARINE CHEMISTRY (cont'd.)		sediments for taxonomy tests of benthic macrofauna, granulometry and total organic matter.	
	Sludge, soils, lake sediments, aquatic sediments and marine sediments.	Total Organic Carbon (TOC)	S-EN-04 (Version 01) Total Organic Carbon Determination (TOC), based on TMECC, 2002 05.07 Calcination at 550°C Gravimetry.
	Seawater, groundwater and surface water, catchment sources and water for industrial purposes.	Spectrophotometric determination of chlorophyll-a and phaeophytin-a in waters	EPA, 446.0 In Vitro Determination of Chlorophylls a, b, c1 + c2 and Pheopigments in Marine and Freshwater Algae by Visible Spectrophotometry.
	Sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	Spectrophotometric determination of chlorophyll-a and phaeophytin-a marine sediments (intertidal and subtidal), aquatic sediments (estuarine and fluvial) and lacustrine sediments.	Standard Operating Procedure for Spectrophotometric Determination of Chlorophyll α in waters and sediments of Fresh/Estuarine/Coastal Areas. (References: SM10200H, EPA 446.0). Revision 2018-1.
	Biodiversity in Rocky intertidal	Taxonomy of macroinvertebrates and macroalgae in rocky intertidal.	Methodological Guide for the Description of Marine Ecosystems. Publisher: Environmental Assessment Service. First edition 2022 and Exempt Resolution No. 3612/2009 modified Exempt Resolution No. 3612 of 2009 and the modifications indicated in Res. Ex. No. 660 of 2018, Res. Ex. No. 3002 of 2018 and Res. Ex. No. 1933 of 2021, numeral 27, of the Undersecretariat of Fisheries and Aquaculture.
		Sampling of biodiversity sampling in rocky intertidal.	Iken & Konar, Institute of Marine Science, University of Alaska Fairbanks, USA, date: 09/08/2003.
AQUATIC BIOLOGY	Aquatic Organisms and Biodiversity	Quantitative analysis of phytoplankton	A-EN-01 (Versión 02)
		Qualitative analysis of zooplankton	A-EN-02 (Versión 02)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
AQUATIC BIOLOGY (cont'd.)	Aquatic Organisms and Biodiversity (cont'd.)	Quantitative analysis of zooplankton	A-EN-03 (Versión 02)
		Quantitative analysis of periphyton	A-EN-04 (Versión 03)
		Identification and determination of ictiofauna	B-EN-01 (Versión 02)
		Identification and determination of macrophytes	B-EN-02 (Versión 02)
		Sampling of ictiofauna	NCh 411/2. Of96 Water quality - Sampling - Part 2: Guide on sampling techniques.
		Sampling of macrophytes	NCh 411/2. Of96 Water quality - Sampling - Part 2: Guide on sampling techniques.
		Sampling of phytoplankton	NCh 411/2. Of96 Water quality - Sampling - Part 2: Guide on sampling techniques
		Sampling of zooplankton	NCh 411/2. Of96 Water quality - Sampling - Part 2: Guide on sampling techniques.
		Sampling of didymo	SUBPESCA, 2016. 2nd Edition Manual for the monitoring and identification of the benthic microalga Didymosphenia geminate.
		Qualitative analysis of didymo	SUBPESCA, 2016. 2nd Edition Manual for the monitoring and identification of the benthic microalga Didymosphenia geminate.
		Qualitative analysis of periphyton	SUBPESCA, 2016. 2nd Edition Manual for the monitoring and identification of the benthic microalga Didymosphenia geminate.
		Sampling of periphyton	SUBPESCA, 2016. 2nd Edition Manual for the monitoring and identification of the benthic microalga Didymosphenia geminate.
		Qualitative analysis of phytoplankton	SUBPESCA, 2016. 2nd Edition Manual for the monitoring and identification of the benthic microalga Didymosphenia geminate.

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