



CERTIFICATE OF ACCREDITATION

This is to attest that

GLOBAL ALLIANCE LABORATORIES CO. LTD.

KING FAISAL ROAD, AL-MAHJAR DISTRICT
JEDDAH, 22511, SAUDI ARABIA

Testing Laboratory TL-1091

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.

Effective Date February 16, 2024



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

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

GLOBAL ALLIANCE LABORATORIES CO. LTD.

Contact Name Afzal Ahmed Shaikh

Contact Phone +966-505889134

Accredited to ISO/IEC 17025:2017

Effective Date February 16, 2024

SM 2540 D, 23 rd Edition, 2017*.	Total Suspended Solids (TSS) in water- Filtration & Gravimetric
SM 2320 B, 23 rd Edition, 2017	Alkalinity in water-Titration-Color Change
SM 2510B, 23 rd Edition, 2017	Conductivity in water - Conductivity Meter
SM 2510B, 23 rd Edition, 2017 & Water Extraction Method: 4F1b1, KSSL 2014	Conductivity in soil - Conductivity Meter – 1:5 Water extraction
SM 2540 C, 23 rd Edition, 2017	Total Dissolved Solids (TDS) in water - Gravimetric (Dried at 180 °C)
SM 2540 D, 23 rd Edition, 2017*.	Total Suspended Solids (TSS) in water- Filtration & Gravimetric
SM 4500-Cl-B, 23 rd Edition, 2017 & Water Extraction Method: FM 5-552, 2018**	Chloride in soil – water extraction and Titration-Color Change
SM 4500-Cl-B, 23 rd Edition, 2017	Chloride in water - Titration-Color Change
SM 4500 H ⁺ B, 23 rd Edition, 2017 & Water Extraction Method: 4C1a2a1, KSSL 2014	pH in soil by pH Probe - 1:1 Water extraction
SM 4500 H ⁺ B, 23 rd Edition, 2017	pH in water by pH Probe
US EPA Method 6010D, 2018	Trace metals in water by ICP-AES (Ca, Mg, K, Na, Si, P, S, Al, Sb, As, Ba, Bi, B, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Ag, Sr, Sn, Ti, V, Zn)
US EPA Method 6010D, 2018 & Water Extraction Method: 4D2a2, KSSL 2014*	Multi-Parameters: Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Th, Ti, Tl, U, V, W, Zn in soil, by water extraction & ICP-AES Finish

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US EPA Method 6010D, 2018 & Fusion Method: NFLD/3316, 2018**	Multi-Parameters: Al ₂ O ₃ , CaO, Cr ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, MgO, MnO, Na ₂ O, P ₂ O ₅ , SO ₃ , SiO ₂ , TiO ₂ in Rocks & Ores - Fusion & ICP-AES Finish
US EPA Method 6010D, 2018 & 4-Acid digestion Method: NFLD/3316, 2018**	Multi-Parameters: Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Th, Ti, Tl, U, V, W, Zn in Rock, Ore, Soil & Stream Sediments by 4-Acid Digestion & ICP-AES Finish
US EPA Method 6010D, 2018 & 4-Acid digestion Method: NFLD/3316, 2018**	Multi-Parameters: Ag, Cu, Pb, Zn, Fe, Ni, Mo, S in Rock & Ore by 4-Acid Digestion & ICP-AES Finish

NOTE:

USEPA Method 6010D: Inductively Coupled Plasma—Optical Emission Spectrometry, 2018.

* = Standard Method for the Examination of Water and Waste Water, 2017. American Public Health Association (APHA), American Water Works Association (AWWA) & Water Environment Federation (WEF).

** = Florida Method of Test For Chloride in Soil and Water Designation: FM 5-552, 2018.

+ = United States Department of Agriculture (USDA): Kellogg Soil Survey Laboratory Methods Manual, Soil Survey Investigations Report No. 42, Version 5.0, 2014.

++ = Analytical Methods for Chemical Analysis of Geological Materials. Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, Open File NFLD/3316, 2018, 67 pages. Editors: Finch, C., Roldan, R., Walsh, L., Kelly, J. and Amor, S.