



Statement of Qualifications

2024

Company Overview

Monterey Bay Analytical Services (MBAS) is a California State Certified Environmental Laboratory providing laboratory testing since 1999. MBAS continuously strives for precision, accuracy, and dependability in every aspect of the services we provide.

MBAS primarily focuses on water quality and offers a wide range of analyses for compliance testing and environmental contamination testing. Routine sample types include:

- Drinking water: ground and surface waters
- Wastewater: domestic and industrial
- Irrigation water
- Storm water runoff

MBAS also offers sample collection and sample pick up services upon request.

Certifications

California State Water Resources Control Board
Environmental Laboratory Accreditation Program (ELAP)
Certificate Number: 2385

California Department of General Services
Small Business (Micro Business) Certificate

Performance Evaluations

MBAS routinely participates in proficiency testing (PT) programs. This testing program is a set of blind samples that the laboratory analyzes. MBAS participates in the following PT programs:

- Water Supply (WS) study for drinking water samples
- Water Pollution (WP) study for wastewaters and other polluted waters
- DMRQA program participant
- Microbiology study

The proficiency testing program allows us to evaluate our analytical methodology and is an important part of our Quality Assurance Program.

Quality Assurance / Quality Control

Providing sound and legally defensible data is of paramount importance to MBAS. Accuracy and reproducibility are the primary goals of our QA/QC plan. To ensure this, method blanks, laboratory control samples, second source samples, matrix spikes, duplicates, and replicates are analyzed as

applicable to each analysis. QC requirements for each analytical technique are clearly outlined in the standard operating procedures, and all analysts receive extensive training in these requirements.

External audits are routinely performed by the California ELAP inspectors and internal reviews are also conducted regularly to ensure the quality of our data.

Laboratory Facilities

MBAS is conveniently located in our 8,000 sq. ft. building in Monterey, CA. The laboratory has continued to change and grow as we adjust to increasing demand. In addition to the primary sample preparation & analysis laboratory and the microbiology room, MBAS has made improvements to include an anion and total organic carbon lab room, a dedicated 8-foot fume hood for solid phase extraction (Oil & Grease analysis), a Total Suspended Solids/Total Dissolved Solids (TSS/TDS) lab room, and additional storage space for shipping and receiving.

Major Laboratory Equipment

Metals analysis:

- Inductively Coupled Plasma Mass Spectrometer (ICP MS)
- Inductively Coupled Plasma Optical Emission Spectrometer (ICP OES)

Inorganic Chemistry:

- 4 Ion Chromatograph instruments
- Total Organic Carbon Analyzer
- UV/Visible Spectrometer
- Automated Titration system
- Automated BOD analyzer
- Segmented Flow Analyzer
- Discrete Chemistry Analyzer

Information Technology

MBAS strives to stay on the forefront of technology. Our Laboratory Information Management System (LIMS) software provides us with the capability to create reports in CA CLIP, CEDEN, SWAMP, and Geotracker (EDF) formats. Many clients require data to be formatted in such a way as to be easily uploaded into databases. Our staff can customize electronic data deliverables (EDD) reports to meet our customers' needs.

Project Experience

MBAS has experience working with a wide array of customers and industries throughout California, including large clients as well as private well users. Among the larger projects that MBAS has been involved with was the pilot study for the reclaimed water re-use project. Each quarter over this year-

long project, MBAS staff spent a marathon day collecting water samples from multiple locations around the Monterey Peninsula and Salinas, which were then packed and shipped to several subcontract laboratories for testing, requiring over twenty ice chests at a time. MBAS has assisted growers with the Irrigated Lands Ag Order since 2012, performing collection, analysis, and reporting data for thousands of agricultural wells throughout Monterey, Santa Cruz, San Benito, and San Luis Obispo counties.

Markets Served

- Municipal and private water utilities
- Wastewater treatment plants
- Water re-use and desalination projects
- County agencies
- Consulting and engineering firms
- Agricultural and winery industries

Personnel

David Holland

President and Technical Manager

Principal Founder

B.S. Microbiology

California State Certified Public Health Microbiologist

David is the owner and founder of MBAS. He has over 30 years' experience performing chemical and biological analyses. He spent 12 years working for the Monterey County Health Department as a Public Health Chemist. He has also taught as an Adjunct Instructor at Hartnell Community College and Gavilan Community College teaching courses in water treatment and distribution. David is the project manager for complex projects requiring a high degree of coordination with sampling, analysis, and reporting.

Holly Chiswell

Laboratory Supervisor/Principal Analyst

M.S. Marine Science - Chemical Oceanography

CWEA Grade 2 Laboratory Analyst

Holly has been with MBAS since the start of 2019 and operates the ion chromatographs and TOC analyzer. She assists with various colorimetric and inorganic analyses including colorimetric methods using Segmented Flow Analysis and the discrete analyzer instrument.

Trevor Holland

QA Analyst

B.S. Earth System Science and Policy - Chemistry

CWEA Grade 4 Laboratory Analyst

CWEA Grade 1 Environmental Compliance Inspector

Trevor is returning to MBAS with over 15 years' experience working with POTWs doing regulatory compliance reporting and Laboratory Quality management. Trevor is also the current CWEA Monterey Bay Section Laboratory committee chairperson. Trevor will be overseeing all laboratory QA/QC requirements as well as TNI accreditation. Trevor also brings expertise with laboratory LIMS software.

Xochitl (so-chil) Lopez

Laboratory Analyst

B.S. Biology

CWEA Grade 1 Laboratory Analyst

Xochitl began working at MBAS in 2022. She performs methods using segmented flow, discrete, and ion chromatography analysis. Her area of expertise includes TKN, Ammonia, and Cyanide analyses.

Cassidy Goodbar

Laboratory Analyst

B.S. in Marine Science

Cassidy started working for MBAS in October of 2023 after graduating from California State University, Monterey Bay with her B.S. in Marine Science. Cassidy transferred to CSUMB after completing her A.S. in Biology at Fresno City College. She is currently working on microbiological analyses for the lab.

Andrea Cihasky

Laboratory Analyst

B.S. Environmental Science, minor Chemistry, watershed systems concentration

Andrea graduated from CSUMB in 2022 with an B.S. in Environmental Science, minor in Chemistry and a concentration in watershed systems. She started working at MBAS in October 2023.

Kalissa Rendon

Laboratory Analyst

Kalissa started working for MBAS as an intern in May 2023. Although new, Kalissa has become primary analyst for many of the colorimetric and gravimetric analyses. Kalissa is currently in school finishing up an AA in Natural Sciences. Kalissa will be working to gain her CWEA Laboratory Analyst Grade I by the end of 2024.

Linda Brown

Sample Collector / Customer Relations Specialist

B.S. Crop Science from Cal Poly San Luis Obispo

Linda is a contractor that has been working with MBAS for over 15 years. She collects samples for the RWQCB Ag Waiver program and does sample collection and pick-ups throughout Santa Cruz, San Benito, Monterey, and Santa Barbara counties. She brings over 30 years of water sampling and analysis experience from her work with the Santa Clara Valley Water District, the Monterey County Health Department, and now as owner of her own business, Water System Compliance Services.

Sara Sugarman

Account Specialist/Data Analyst

BS, Interdisciplinary Studies, Summa Cum Laude

Sara started with MBAS in July 2017. She is responsible for reviewing final reports for data completeness, accuracy, and acceptable QC. Sara does special reporting, including customized EDDs for clients and uploading to WaterTrax and CLIP.

Tamami Pisano

Laboratory Data Analyst

B.S. Chemistry

Tamami started in 2019 with MBAS. Tamami reviews final reports for accuracy and QC data quality. She provides customers with final reports and invoicing and is responsible for submitting monthly drinking water data to the State data base (CLIP).

Rachel Oakden

Data Analyst/ Sample Receiving

B.S. Geology

Rachel started with MBAS in August 2022 after moving back to the area with her B.S. in Geology from Sacramento State. She handles reporting and invoicing and assists with sample receiving.

Drew McCown

Project Manager

BS Environmental Science and Management

Water Distribution Operator Grade 1

Water Treatment Operator Grade 2

Drew started at MBAS July 2020. Drew oversees sample bottle orders and sample subcontracting. He has been collecting wastewater, irrigation, and potable water samples throughout Monterey, Santa Cruz, and Santa Clara counties. Drew is also the primary contact for special reporting requirements such as Geotracker and CEDEN.

Conor Zumbach

Project Manager

Water Distribution Operator Grade 1

B.S. Environmental Science, Tech & Policy - Watershed Systems

Conor started at MBAS November 2021 after graduating from California State University, Monterey Bay. He is the main contact for the shipment and receipt of samples, along with bottle orders. He also provides sample collection and field analysis services to clients throughout Monterey, Watsonville, Big Sur, Carmel, Salinas, King City, Santa Cruz, Scotts Valley, San Jose, Morgan Hill, and Hollister.

Cody Roberts

Sample Receiving Technician and Laboratory Analyst

B.S Marine Biology with minor in Statistics

Cody Roberts started working for MBAS in November 2021, after graduating from California State University, Monterey Bay. Cody handles all sample receiving duties and is eager to assist our clients with interpreting their laboratory reports.

Sean Riley

Sample Receiving/Data Analyst

B.A. Environmental Studies

Sean started at MBAS in August 2022 after graduating from California State University, Monterey Bay. He works alongside Cody as Sample Receiving Technician and is eager to assist our clients with a great customer experience.