Morgan Greenwald
Laboratory Quality Assurance Manager

CASCADE
DRILLING | TECHNICAL SERVICES

Years of Experience: 13

Education

M.S., Natural Resources, 2007, University of Vermont, Concentration in Aquatic Ecology and Watershed Science

B.S., Environmental Resource Management, 2004, Pennsylvania State University, Minor in Watersheds and Water Resources

Professional Certifications

40-Hour OSHA HAZWOPER, 2006, refreshed yearly

8-Hour OSHA Supervisory Training, 2006

Skills

Analytical Chemistry

GC/MS - Analysis and Maintenance

Chemstation Software

Data Management and Reporting

Laboratory Information Management Systems (LIMS)

Project Management

Quality Assurance

Laboratory Inspections

Environmental Field Sampling

Phase I Environmental Site Assessments

USACE Public Involvement Plans

Contact

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Morgan brings 13 years of experience in environmental research, including sampling, analysis and reporting. With an initial emphasis on aquatic ecosystem metabolism and nutrient cycling, she carried out several research projects with field sampling and laboratory analysis components. Morgan served as an analytical chemist for seven years and is now serving as the Laboratory Quality Assurance Manager with Cascade Technical Services. With a focus on data quality, communication and client service, she maintains the laboratory's quality system, ensures laboratory accreditation compliance, manages laboratory operations and produces client data deliverables.

EMPLOYMENT HISTORY

Cascade Technical Services, Montpelier, Vermont
Laboratory Quality Assurance Manager, January 2016 – present

Manages the laboratory's quality assurance program. Ensures compliance with the laboratory's National Environmental Accreditation Program (NELAP), National Environmental Field Activities Program (NEFAP) under TNI (The NELAC Institute), and ISO 17025 Quality Standards and accreditation requirements. Performs secondary data review and produces CLP-like analytical data packages from Cascade's GC/MS laboratories. Works with clients and data validators to ensure data quality objectives are achieved. Serves as Laboratory Project Manager for the coordination of project logistics, staffing and resources. Oversees the maintenance and ongoing improvements to Cascade's Laboratory Information Management System (LIMS) and electronic data deliverables (EDDs). Manages Cascade's analytical hazardous waste storage and disposal program.

Stone Environmental, Inc., Montpelier, Vermont
Laboratory Quality Assurance Manager, May 2014 – December 2015

Managed the laboratory's quality assurance program. Ensured compliance with the laboratory's NELAP, NEFAP, and ISO 17025 Quality Standards and accreditation requirements. Performed secondary data review and produced CLP-like analytical data packages from Stone's GC/MS laboratories. Worked with clients and data validators to ensure data quality objectives are achieved. Served as Laboratory Project Manager for the coordination of project logistics, staffing and resources. Managed the maintenance and ongoing improvements to Stone's LIMS EDDs. Managed Stone's analytical hazardous waste storage and disposal program. Assisted with data validation efforts.

Acted as the Quality Assurance Unit (QAU) for EPA related environmental and agrochemical studies. Responsible for reviewing outgoing protocols/reports for GLP compliance.

Stone Environmental, Inc., Montpelier, Vermont
Analytical Chemist, March 2007 – April 2014

Operated and maintained Stone's mobile GC/MS laboratories, analyzing groundwater, soil, and rock environmental samples. Provided sample management and data management services. Performed quality assurance review of analytical data packages from Stone's mobile GC/MS laboratories and produced final analytical data reports and deliverables for Stone's clients. Managed Stone's analytical hazardous waste storage and disposal program. Managed long-term groundwater monitoring projects at landfill and school sites in Vermont. Performed Phase I Environmental Site Assessments and USACE Public Involvement Plans. Operated Stone's Waterloo^{APS} to collect groundwater samples. Performed EPA low-flow monitoring well sampling. Collected, extracted, and analyzed rock core samples for Stone's CORE^{DFN} bedrock aquifer analysis procedure.

Vermont Department of Environmental Conservation Laboratory, Waterbury, Vermont
Environmental Analyst III, October 2006 – February 2007

Responsible for the analysis of volatile organic compounds in aquatic samples via modified EPA Method 8021 and the analysis of aldehydes and ketones in air via EPA Method TO11. Participated in the cleaning and tracking of canisters used in EPA Method TO15 analysis.

University of Vermont, Burlington, Vermont
Graduate Research Assistant, August 2004 – May 2007

Investigated the influences of stream geomorphology on hyporheic hydrology and biogeochemistry in Arctic tundra streams of Alaska. Used tracer experiments to determine patterns of surface-subsurface water exchange and also collected and analyzed surface and subsurface water samples for nutrient, carbon and dissolved oxygen concentrations. Estimated nutrient regeneration rates.

Engineered Solutions, Inc., Burlington, Vermont
Water Quality Analyst, September 2005 – November 2006

Collected stream water samples during baseline and storm events to evaluate water quality in a network of streams associated with the Jay Peak Ski Resort to ensure compliance with state water quality standards.

Penn State University, University Park, Pennsylvania
Research Assistant, September 2003 – May 2004

Conducted independent study of patterns of primary production of epilithic stream periphyton throughout the Spring Creek Watershed in central Pennsylvania.

Marine Biological Laboratory, Woods Hole, Massachusetts
Research Experience for Undergraduates (REU) Program Participant, June – August 2003

Designed and carried out a study examining the metabolism of salt marsh ponds within the Plum Island Estuary of Massachusetts.

Penn State University, University Park, Pennsylvania
Laboratory and Field Assistant, May - August 2002

Helped to set up an aquatic ecology laboratory Collected phytoplankton and zooplankton samples from an EPA research vessel on Lake Erie. Filtered and preserved the samples in the laboratory, created slides, performed cell counts and analyzed the chlorophyll-a content of phytoplankton samples using a fluorometer.