

Kelly Stockton-Fiti, M.Sc.

Associate

Specialist in work involving larval stages of aquatic invasive species. Extensive background in microscopy, toxicity testing and dreissenid mussels. Developed live/dead assessment techniques indispensable in toxicity testing.

Academic Background

Masters of Science, Fisheries Resources (University of Idaho)

Bachelor of Science, Biology; Minor in Microbiology (Colorado State University)

Professional Experience

RNT Consulting, *Associate*

- Conduct veliger analysis and testing
- Microscopy of environmental samples
- Perform field and laboratory analyses on water quality and environmental suitability for AIS

KASF Consulting, *Environmental Consultant*

- Plans, designs, constructs and performs experiments for different clients' needs specifically related to aquatic invasive mollusks
- Conducts trainings on veliger sampling and analysis
- Performs site evaluation for infestations of New Zealand mudsnails and recommend control techniques

Marrone Bio Innovation, *Research Scientist*

- Ecological monitoring and toxicity testing on all life stages of invasive zebra and quagga mussels under different water quality parameters
- Assisted in site treatments for customers

GEI Consultants, *Aquatic Ecologist*

- Assessed exotoxicological parameters in accordance with state and federal regulations
- Conducted biomonitoring assessments for clients
- Identified benthic invertebrates and zooplankton

University of Idaho, *Graduate Research Assistant*

- Conducted toxicology assessment of a product to use on New Zealand mudsnails and quagga mussels and assessed the safety of the product on hatchery gear and environment
- Compared the hydrodynamics of two different engineered raceways

- Designed a guide to address the assessment of risk and provided options for management and control of infestations of New Zealand mudsnails in fish hatcheries
- Taught multiple workshops and hosted conferences

Colorado Division of Wildlife, *Aquatic Nuisance Species Technician*

- Conducted monitoring procedures for ANS at over 40 reservoirs monthly, including water quality
- Assessed plankton tow samples with microscopy for veliger presence

Publications

Journal Articles

- Stockton-Fiti, K.A. and C. M. Moffitt. 2017. Safety and efficacy of Virkon® Aquatic as a control tool for invasive mollusks in aquaculture. *Aquaculture* 480: 71-76.
- Stockton-Fiti, K.A. and R. Claudi. 2017. Use of a differential simple stain to confirm mortality of dreissenid mussel veligers in field and laboratory experiments. *Management of Biological Invasions* 8: 325-333.
- Stockton-Fiti, K.A., C.M. Moffitt, B.J. Watten, B.J. Vinci. 2016. Comparison of hydraulics and particle removal efficiencies in a mixed cell raceway and Burrows pond rearing system. *Aquacultural Engineering* 74:52-61.
- Moffitt, C.M., K. A. Stockton-Fiti, R. Claudi. 2016. Toxicity of potassium chloride to veliger and byssal stage dreissenid mussels related to water quality. *Management of Biological Invasions* 7: 257-268.
- Moffitt, C. M., A. Barenberg, K. A. Stockton, and B. J. Watten. 2015. Efficacy of two approaches for disinfecting surfaces and water infested with quagga mussel veligers. Pp 467-477, Chapter 30 in W. H. Wong and S. Gerstenberger, editors. *Biology and management of invasive quagga and zebra mussels in the Western United States*. CRC Press.
- Stockton K. and C.M. Moffitt. 2013. Disinfection of Three Wading Boot Surfaces Infested with New Zealand Mudsnails. *North American Journal of Fisheries Management*. 33:529-538.
- Stockton K, C. M. Moffitt, D. L. Blew and C. N. Farmer. 2012. Acute Toxicity of Sodium Fluorescein to Ashy Pebblesnails *Fluminicola fuscus*. *Northwest Science*. 86:190-197.
- Stockton K. 2011. Methods to Assess, Control, and Manage Risks for Two Invasive Mollusks in Fish Hatcheries. Master's Thesis University of Idaho.
- Stockton K. 2011. Summary of responses to student involvement in WDAFS Survey. *Tributary* Volume 35 no 1:15.
- Stockton K. 2010. Student representation in WDAFS. *Tributary* Volume 34 no3: 7.
- Stockton K, P Morley, et al. Evaluation of the effects of footwear hygiene protocols on nonspecific bacterial contamination of floor surfaces in an equine hospital. *JAVMA*. 2006, 228:1068-1073.

Technical Reports

- Stockton-Fiti, K.A. 2020. Investigating chemical treatment options on quagga mussel veligers in static conditions for treating water supplied for agricultural use & determination of water source effect on adult quagga mussels. Technical Report for United Water Conservation District.

- Stockton-Fiti, K.A. 2019. Trout Haven Ranch New Zealand Mudsail Decontamination. Technical Report for Steve Simpson at Trout Haven Ranch.
- Stockton-Fiti, K.A. 2018. Recommendations for Capitol Lake New Zealand Mudsail Management. Technical Report prepared for Capitol Lake Improvement and Protection Association
- Stockton-Fiti, K.A. and C. M. Moffitt. 2017. Determining the toxicity of antifreeze to quagga mussels. Technical Report for US Fish and Wildlife Service.
- Stockton-Fiti, K.A. and C. M. Moffitt. 2017. Investigation of the Edwards protocol's effectiveness on zebra mussel veligers. Technical Report for Mississippi River Basin Panel.
- Stockton-Fiti, K.A. and C. M. Moffitt. 2016. Verification of the effectiveness of KCl on zebra mussel veligers. Technical Report for Pacific States Marine Fisheries Commission.
- Stockton-Fiti, K. 2015. Investigation of the KRIA industrial ionizer on the mortality of the invasive quagga mussel. Technical Report.
- Stockton-Fiti, K. 2015. Toxicity of EcoClean to Quagga Mussel Veligers. Technical Report.

Presentations

- Western Regional Panel on Aquatic Nuisance Species
- International Conference on Aquatic Invasive Species
- Western Division American Fisheries Society