

Shane Sigle



Engineer, Recreation Engineering & Planning
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Background

Shane brings a varied and valuable set of qualifications to the table. Shane holds a Master's Degree in Water Resource Engineering from the University of Maryland specializing in natural channel river restoration, water rights, water quality, and hydraulic design. Shane has worked on river projects across Colorado including wetland mitigation, water rights trials, river trails, and in-stream structures.

Education

Master's degree in Water Resources Engineering, 2003 (3.7GPA) from the University of Maryland.
Bachelors degree in Environmental Economics and Physical Geography, 1998 from the University of Colorado

Interesting Projects

Athlete—Shane is a two-time member of the USA Canoe and Kayak Team and two-time member of the USA Rafting Team. Shane has competed for Team Montrail and Team BUFF Multi-Sport Adventure Racing Teams across the globe.

Public Service—Shane is an annual instructor for Liquid Camp which is located on the South Fork of the American River in California. The week-long camp brings together disadvantaged HIV-positive kids from around the U.S. to learn how to kayak and live in the outdoors.

Engineer—Shane has worked across Colorado, Washington D.C., and Christchurch New Zealand as a project Engineer for water resource projects.

Work/Project Experience

Work Experience

2007-present Recreation Engineering and Planning: Worked with Gary Lacy at REP to help market, plan, design, and implement river trails, riparian habitats, and in-stream whitewater parks. Responsibilities include computer and physical modeling, flood and scour analysis, layout, design, master planning, marketing, research and analysis and construction implementation.

2005-2007 Aqualinc Research Limited, Christchurch, New Zealand. Worked as a project engineer completing water resource master planning and hydrology for the Canterbury Region of the South Island. Responsibilities included computer modeling, hydrology and hydraulic analysis, layout, mapping, GIS, and research and analysis.

1998-2000, 2003-2005 Wright Water Engineers. Project engineer for a leading water resource engineering company in Durango, Colorado. Performed project management, budgeting, scheduling, engineering, and consultation for water resource and water rights projects throughout the State.

Project Experience

Southern Ute Indian Tribe, Ignacio, CO. Performed sediment transport and tractive force calculations to determine the likelihood of post-wetland construction erosion. The calculations were used during wetland design.

Watts Branch of the Anacostia River. Modeled state-of-the-art restoration techniques (Rosgen's Methods) using U.S. Army Corps of Engineers HEC-6 model on a highly impacted and urbanized watershed in southeast Washington, D.C.

Florida Water Conservancy District (FWCD), Durango, CO. Provided Best Management Practices (BMPs) for post-fire flood mitigation. Mitigation techniques included log erosion barriers, plantings and seeding, and sediment catchment basins with trash racks. The BMPs earned the FWCD national recognition.

Animas River. Assisted with design and construction of Smelter Rapid during the safety modifications done in the fall of 2003. Work included conceptual level drawings, air photograph analysis, and on-site construction oversight.

Lititz Run River. Consulted on post-restoration analysis of natural channel restoration project through the town of Lititz, PA.

Knight-Run Subwatershed Plan. Assessed stream as a representative sub-watershed to perform natural channel restoration on Octoraro Creek, in PA.