



GILILAN ASSOCIATES  
MARKET-BASED CONSERVATION SOLUTIONS

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***RESUME OF SCOTT E. GILLILAN***

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***EDUCATION***

**MS, Hydrology**, Oregon State University, Corvallis, OR, 1989  
**BS, Biology**, Lewis and Clark College, Portland, OR, 1984

***PROFESSIONAL AFFILIATIONS***

*Past Chair*, Montana Natural Resources Professionals  
*Past Chair*, Association of Montana Floodplain Managers  
MT Chapter American Water Resources Association  
Beaverhead/Madison Realty Board

***EXPERTISE***

- Applied Basin, Watershed, Channel Fluvial Investigations and Hydrology
- Floodplain Management and Flood Hazard Investigations
- Groundwater and Development Suitability Investigations
- Conservation Property Assessment, Management and Planning
- Land Acquisition, Value Creation, Management and Advisory Services
- Montana Licensed Real Estate Associate
- River, Stream, Riparian, Wetland Restoration Design and Construction
- Aquatic Resource Inventory and Management
- Technical Oversight, Construction Inspection and Peer Review
- Composting and Soil Building Solutions for Agriculture, Reclamation and Restoration

Mr. Gillilan has been engaged in the aquatic and land restoration sciences since 1984 and professionally consulting in the field for 20 years. For the last 7 years he has also been active with private individuals and equity groups finding and assessing properties for conservation, recreation and investment purposes. His comprehensive knowledge of wildland, farm, ranch, river and stream landscapes reflects exposure to projects on premier land holdings across the US with an emphasis on the Intermountain West. To augment his land acquisition expertise he gained his Montana real estate associate license held under Bramlette & Company.

He is the author of numerous papers on natural channel design and restoration, international river restoration standards, and floodplain management. He has

experience with every facet of surface hydrology and flood hazard analysis, water rights, salmonid fishery enhancements, wetland design and construction, and land reclamation. A principal focus is in spring creek environments. He seeks solutions that integrate optimized land management strategies with principals of conservation investment, ecosystem service markets, wildlife habitat creation, fluvial geomorphology, ecologic and social integrity, and quality engineering practice. He has managed millions of dollars of design-build river restoration and ranch improvement projects.

Other current interests include identification of additional market driven mechanisms to add value to landscapes that are undervalued, degraded or ecologically important by harnessing emerging markets in renewable energy, ecotourism, cultural revitalization, sustainable building systems, limited development and new models for private equity driven conservation.

### ***CAREER HIGHLIGHTS***

#### **1999 to Present. Principal of Gillilan Associates, Inc.**

- Conservation and investment property acquisition, assessment and sustainable development planning.
- Aquatic resource recovery and restoration services, project coordination, design and implementation.
- Feasibility, design and construction supervision.
- Hydrology and flood hazard investigation, education and mitigation design.
- Development related hydrology; drainage, groundwater and wastewater investigations.

#### **1999 to 2004. Principal and Co-founder of Earth Systems, LLC**

- Applied composting solutions for reclamation/remediation projects.
- Sustainable agriculture/water quality project development.

#### **1997 to 1999. Principal and Co-founder of Confluence Consulting, Inc.**

- Extensive aquatic resource project development, design and construction. management throughout the U.S.; award winning projects.
- Project manager for several large natural channel relocation projects.

#### **1990 to 1997. Senior Project Manager/Designer, Inter-Fluve, Inc.**

- Member, Board of Directors, 1996 to 1997.
- Principal designer and manager of channel restoration and construction projects.
- Broad-based hydrologic investigations.

#### **1987 to 1989. Graduate Research Assistant, Oregon State University**

- Thesis evaluated temporal and physical aspects of woody debris loading in two SE AK anadromous salmonid spawning streams.
- Fluvial channel mapping and anadromous fisheries investigations

#### **1986 to 1987. Research Assistant, Howard Hughes Medical Institute.**

- Researcher on the International Human Genome Mapping Project

#### **1984 to 1986. Watershed Technician, US Forest Service, Clearwater NF.**

- Channel stability surveys, hydrologic measurement, water quality monitoring, fish population inventory, fish habitat improvement projects, riparian restoration, and big game population censusing.

### ***PUBLICATIONS***

Gillilan, S., Boyd, K., Hoitsma, T. and M. Kauffman, (2005). Challenges in developing and implementing ecological standards for fluvial restoration projects: a practitioner response to Palmer et al. (2005), *J. of Applied Ecology*, **42**, 223-227.

Gillilan, S. E. and C. Boyer. 1998. Flood protection vs. avoidance issues concerning gravel bed rivers. Wetlands Engineering & River Restoration Conference, American Society of Engineers, Denver, CO.

Gillilan, S.E. 1998. (Discussion) Environmental hydraulics: new directions for the 21st century: *Journal of Hydraulic Engineering*. *J. of Hydraulic Engineering*. Vol. 124: p. 135.

Gillilan, S.E. 1997. (Book Review) *Upstream: Salmon and Society In the Pacific Northwest*. *Coastal Management Journal*. Vol. 25:227-228.

Gillilan, S.E. 1996. Use and misuse of channel classification systems. *Stream Notes*: October 1996.

Gillilan, S.E. 1996. Utilizing geomorphic analogs for design of natural stream channels. In: *Proceedings of the 1996 North American Water and Environment Congress*. Amer. Soc. Civil Eng. (ed. C. Batha), pp.2799-2804. ASCE, New York, NY.

Gillilan, S.E. 1995. Gaining perspective on aquatic habitat restoration. *Land and Water* 39:30-33.

Gillilan, S.E. and D.E. Miller. 1992. *Handbook for Reclamation of Placer Mined Stream Environments in Western Montana*. Prepared for Environmental Protection Agency, Helena, MT.

### ***ORIGINAL SEMINARS AND SHORT COURSES***

Instructor/Course Developer: *What Every Realtor Needs to Know About Floodplains*. Bozeman, MT 2007, Kalispell, MT 2005

Instructor/Course Developer: *Floodplain Management and Permitting for Administrators and Elected Officials*. Miles City, Great Falls, Missoula, MT, March 2005

Instructor/Course Developer: *Floodplain 101 – What Every Water Resource Professional Needs to Know*. 7<sup>th</sup> Annual Association of Montana Floodplain Managers Symposium, April 2003, Lewistown, MT

Instructor/Course Developer: “Upper Yellowstone River Dynamics Workshop”, Livingston, MT, February 2000.

Instructor/Course Developer: *Design of Natural Stream Channels*, Inter-Fluve, 1997.

Instructor/Course Developer: *Applied Fluvial Geomorphology For Stream Habitat Design and Restoration*, Wetlands Training Institute, July 1996.