



Workshop 2005 Leading the Way

THOMAS W. HOLZ

Civil Engineer

EDUCATION

MS, University of Washington, Civil Engineering

BS, University of Wisconsin, Civil Engineering

EXPERIENCE

Mr. Holz has had over 30 years experience in water resources related projects including management of major studies, designs, and construction engineering in the USA, Australia, and Taiwan. He has served as a consultant to local, state, and federal agencies and many special purpose districts.

In recent years he has gained national attention as a promoter of zero impact development techniques. Such procedures and designs would obviate stormwater runoff from development and thus eliminate impacts on receiving waters. He has been requested to lecture on the topic of zero impact development on over 50 occasions, has taught university-level courses, and has appeared on three radio shows and three television shows on the subject. His zero impact concept has been cited as the most important environmental story of 1999 by Tidepool News, and he was cited by the Tacoma News Tribune as one of 20 "people to watch" in the new (21st) century.

PUBLICATIONS AND PRESENTATIONS

Mr. Holz has made many presentations to professional groups. The following are a sample:

"In the Absence of Standards Low Impact Development Might Equate to High Impact Development". In Droscher, Toni and David A. Fraser (eds.) 2003 Georgia Basin/Puget Sound Research Conference, March 31-April 3, 2003, Vancouver, British Columbia. Puget Sound Water Quality Action Team. P.O. Box 40900, Olympia, WA 98504.

"Logging Experience is Relevant to Low Impact Design". Fresh Outlook Magazine. 266 Terrace Drive, Kelowna, BC V1V1G2. Issue 13, November, 2002.

"The Case for Zero Impact Development". Many presentations between 1998 and present. For example: December, 1999. In: Watershed Management to Protect Declining Species, Proceedings. American Water Resources Association Conference. Hosted by Washington State Section of AWRA.

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"ESA Impact on Regulations and The Way We Develop Land: Possible Changes Ahead", Presented at the Annual City and County Planning directors Conference, Chelan Washington, September, 1997.

"Is the Loss of Habitat Inevitable with Urbanization?", Conference Presentation: Urban Stream Protection, Restoration and Stewardship in the Pacific Northwest: Are We Achieving Desired Results?. March 10-12, 1997, Douglas College, New Westminster, British Columbia.

"Toward a Common Language: Communication Among Fish Biologists and Stormwater Managers", For the American Fisheries Society, Fifteenth Annual General Meeting North Pacific International Chapter March 18, 1993.

"The Costs of Urban Runoff Management", paper presented to the "Salmon in the City" conference, Packwood Forest, Eatonville, WA, 1992.

"Storm and Sanitary Sewer Design Using Microcomputers" seminar presented to engineers in Portland, Oregon, Seattle, Washington, and Vancouver, BC, 1985.

"Pollution Aspects of Urban Runoff, *Should Stormwater be Treated?*" Paper presented to American Public Works Association, Seattle, Washington, 1975. "Modeling Water Temperature in the Lake Washington and Green River Drainage Basins", with R.F. Ott and G. Farris, paper read at the 9th annual meeting of the American Water Resources Association, Seattle, Washington, 1973.

"An appraisal of the King County Workshop, *Some Insights Gained from Public Participation in Planning*", Grass Roots and Water Resources Management Conference sponsored by Washington State University, Pullman, Washington, 1972.

"Public Participation in Planning: An Analysis of Past Practices, Some Direction for the Future", Master's thesis, University of Washington, 1971.

HONORS AND ASSOCIATIONS

Invited by TCTV (local access television) to tape presentations:

- "The Case for Zero Impact Development" - aired December, 1998;
- "Concrete Kills" aired February 1999
- "Roofs for Salmon" aired March 1999.

Invited by jurisdictions, state and federal agencies, citizens groups to present the "**Case for Zero Impact Development**". A sample of presentations are:

- Tulalip Tribe, July 1998;
- Washington Association of City and County Planners, August 1998;
- EPA Western States Non Point Conference, November 1998;

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- City of Tumwater, Washington, March 1999;
- Department of Ecology, Washington, March 1999;
- Corps of Engineers Seattle District, Washington, March 1999;
- Soils for Salmon March 1999; District of Saanich, British Columbia, April 1999;
- Pierce County Council, Washington April 1999;
- City of Lacey, Washington, April 1999;
- WSU Extension, Puyallup, Washington, August 1999;
- National Marine Fisheries Service, Olympia, WA, September 1999;
- Fourth Annual Partners for Smart Growth Conference in Atlanta, GA, December 4-6, 2000.
- YESC (YMCA Student Environmental Forum), Olympia, WA, March 25, 2001.
- Keynote speaker, Low Impact Development and Stormwater Management Workshop, February 20, 2002, Victoria, BC. Sponsored by Capital Region, Province of British Columbia, others.
- Washington State University Cooperative Extension, Thurston County, 1999, 2000, 2001; Island County, 2002.
- Washington Hydrologic Society, Mercer Island, WA, November 11, 2002.
- Black Hills High School Environmental Fair, November 18, 2002
- University of Washington Continuing Education Seminar, Seattle, WA, February 6, 2003.
- Puget Sound Georgia Basin Research Conference, Vancouver British Columbia, "In the Absence of Standards Low Impact Development Might Equate to High Impact Development". April 2, 2003.
- EPA, Nonpoint Water Quality Division Retreat, Seattle, WA, April 29, 2003
- Save Lake Sammamish Coalition, Issaquah, WA, May 29, 2003.
- Saving Small Towns: Low Impact Development Solutions. "Writing By-Laws For Effective LID Implementation". Cumberland, BC; June 20, 2003.

For the **United States General Administration Office**, was invited to participate in a report to the United States Congress regarding the mitigating effects of low impact development on waters of the United States. (April – June, 2001). October 2001. Report to Congressional Requesters, Environmental Protection – Federal Incentives Could Help Promote Land Use That Protects Air and Water Quality. GAO-02-12.

Recently, Mr. Holz has taught **short courses** on Zero Impact Development, Hydrology, and erosion control. The following are a few examples:

- Edmonds Community College, (twice) May and July 1999;
- University of Washington Shortcourse March 1999.
- Evergreen State College, Fall Quarter, 2000 (3 lectures), 2001.

Invited guest on **radio talk shows** including:

- Plays in Peoria Productions, the Paul Nelson Radio Show, April 1999;
- David Weisbach Show, KVI, November 23, 1998;
- Steve Cher Show, KUOW, PBS, University of Washington, March 8, 2001.
- John Ford Show, KAOS, Evergreen State College, January 4, 2002. 2-1/2 hour "call-in" radio show. The subject of the panel discussion was preserving and restoring urban watersheds.

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- FM 96.1 radio, "Mandy Brown Show", taped July 31, 2003.

Mr. Holz concept for Zero Impact Development and derivative topics has been the subject of many **news articles** in local papers and in trade publications. A sample include:

- "Lacey Passes First Ever Zero-Impact Ordinance" Daily Journal of Commerce, 1 September 1999.
- "Its time to try zero impact development, Daily Journal of Commerce 19 August 1999.
- "Lacey allows builders to be kind to salmon" Tacoma Business Examiner, 6 September 1999.
- "Big changes needed to save salmon in urbanizing watersheds", Washington State Community Trade and Economic Development Newsletter *About Growth* Summer 1998.
- "Engineer sees Lacey's future paved in grass" Tacoma News Tribune, 12 November 1998.
- "Engineer says grass streets help salmon", Daily Journal of Commerce, 13 November 1998.
- "Housing and runoff need new course, says engineer" 3 November 1998.
- "Engineer says communities should strive for zero impact development" The Wahkiakum County Eagle, 24 December 1998.
- "Builder envisions green growth", The Olympian, 21 January 1999.
- "Zero runoff development needed to protect watershed".
- "Zero runoff development needed to protect watershed", APWA Reporter, February 1999.
- "How do we live here", Hunt and Peck (internet) News, Dec 13, 1999.
- "Time to try zero impact development" (top story), Tidepool News, Feb 9, 2000,
- "Council eyes new runoff scheme", The Everett Herald, February 9, 2000.
- "Snohomish Passes rules for Greener Development". April 3, 2000. The Daily Journal of Commerce.
- "Vegetated rooftops are taking root". Daily Journal of Commerce, November 16,2000.
- Tri-County Salmon Plan Does Not Protect Salmon. South Sound Green Pages, March 2001, Olympia, WA.
- *Zero-impact or "60/0" development preserves forest and fish habitat, May 2002. in* FresH2Outlook, Lake Country, British Columbia

Invited on different occasions to **testify before Washington State Legislative Committees** for Transportation and for Agriculture and Ecology on the impact of urbanization on salmon habitat.

Member American Public Works Association; Active Member of Stormwater Manager Committee since inception in 1988.

Served on State of Washington Department of Transportation (**Research Office**) **Precipitation Research Technical Advisory Committee. April 17, 2000.**

Chairman of **Salmon in the City** conference; Prime Sponsor: APWA; March 1992 and again May 20, 1998

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Served on committee with **Washington State Department of Transportation** to oversee grants program for 2HB 2031 Stormwater Control Grant Program; 1996.

Served on committee with **Washington State Department of Transportation** to review their water quality plan related to all highways in the state; 1993.

Served on committee with **Washington State Department of Transportation** to review their proposed drainage standards; 1992.

Served on **State of Washington Department of Ecology** Committee for Review of Volumes 1 and 3 of *Stormwater Management Manual for Western Washington*, 2001.

Served on **State of Washington Department of Ecology** Committee for Review of *Stormwater Management Manual for the Puget Sound Basin (the Technical Manual)*, 1992.

Served on **State of Washington Department of Ecology** Committee for Review of *Stormwater Program Guidance Manual for the Puget Sound Basin*, 1992.

Co-chaired citizens review of *Puget Sound and Adjacent Waters Plan*, Winter, 1971