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DEPARTMENT OF  
WATER RESOURCES

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*ATTORNEYS FOR THE CITY OF POCATELLO*

**BEFORE DEPARTMENT OF WATER RESOURCES  
OF THE STATE OF IDAHO**

IN THE MATTER OF DISTRIBUTION )  
OF WATER TO WATER RIGHT NOS. ) Docket No. CM-DC-2011-004  
36-02551 AND 36-07694 )  
) **POCATELLO'S SUPPLEMENTAL EXPERT**  
(RANGEN, INC.) ) **WITNESS DISCLOSURE**  
\_\_\_\_\_ )

The City of Pocatello ("Pocatello"), by and through its counsel White & Jankowski, LLP, hereby provides notice that it has retained Dr. John D. Woodling as a testifying expert in the above captioned matter. By this disclosure Pocatello also supplements its November 1<sup>st</sup> 2012 responses to Interrogatory Nos. 1, 3, and 4 of Rangen's First Requests for Discovery. Dr. Woodling's Curriculum Vitae is attached hereto as Exhibit A.

Respectfully submitted this 4<sup>th</sup> day of December, 2012.

CITY OF POCATELLO ATTORNEY'S OFFICE

By   
A. Dean Tranmer

WHITE & JANKOWSKI

By SKL  
Sarah A. Klahn

ATTORNEYS FOR CITY OF POCATELLO

**CERTIFICATE OF SERVICE**

I hereby certify that on this 4th day of December, 2012, I caused to be served a true and correct copy of the foregoing Pocatello's Supplemental Expert Witness Disclosure for Docket No. CM-DC-2011-004 upon the following by the method indicated:



\_\_\_\_\_  
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## CURRICULUM VITAE

### John Woodling, Ph.D.

Aquatic Biologist  
2180 1/2 K 1/2 Road, Grand Junction, Colorado 81505

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### EDUCATION

Ph.D., Biology Major, University of Colorado, Boulder, Colorado, 1993.

Title of Doctoral Dissertation: "Factors Effecting Toxicity of Metals To Brown Trout, An In Situ study of the Arkansas River"

M.S., Biology Major, Chemistry Minor, University of Louisville, Louisville, Kentucky, 1971.

Masters Thesis: "Biological, Chemical, and Physical Characteristics of Brashears Creek, Spencer and Shelby Counties"

B.S., Biology Major, Mathematics Minor, Southern Colorado State College, Pueblo, Colorado, 1968.

### PROFESSIONAL EXPERIENCE

- Jan 2007  
Present      **College Instructor**  
Mesa State College, Grand Junction, Colorado. Scientific Writing, Aquatic Entomology and Fish Biology (Undergraduate)
- Jan. 2004  
Present      **Consultant, Woodling Aquatics, LLC.**  
Clients include Colorado Trout Unlimited, Colorado State Land Board, Colorado Division of Hazardous Materials and Waste Management, West Slope Water Network, Sierra Club, Western Resource Advocates, Eagle River Watershed Council and Eagle Mine Limited. Prepare technical assessments of environmental issues in aquatic systems. Represent organizations at Colorado Water Quality Control rulemaking hearings and testify as expert witness in US District Court.
- Jan. 1994  
Present.      **University Instructor**  
University of Denver, Community College, Environmental Policy Management  
Instructor , Wetland Ecology, General Ecology, Aquatic Toxicology, Research Writing, Endangered Species and Introduction to Water Quality (Graduate level classes) and capstone student advisor.
- Jan 1998  
Present      **Research Associate**  
University of Colorado Boulder, Colorado. Awarded US EPA grant in 2003 to study impacts of estrogenic compounds on Colorado fish populations.
- Jan. 1997  
2003      **University Instructor**  
University of Colorado, EPO Biology. Stream Biology.
- July 2002 -  
Retired      **Cost Center Supervisor**  
May 2003      Colorado Division of Wildlife (DOW), Denver Colorado  
• Principal duty was to manage and supervise water unit of the habitat section, including water quality and Water Quantity aspects of agency goals and objectives.  
• Develop budget and work objectives used by DOW to respond to water resource issues.  
• Supervised and directed water unit employees to achieve program goals  
Designed and developed web-based model to analyze fishery and habitat data for DOW use.  
• Participated in state and federal Superfund and CERCLA by development and writing of and/or review of remedial investigation documents, feasibility studies and remedial action plans; negotiate for the state in settlement actions, testify in water quality related hearings and court cases.
- July 1987 -  
June 2002.      **Program Specialist**  
Colorado Division of Wildlife (DOW), Denver Colorado  
• Principal duty was to represent the DOW in all matters pertaining to water quality issues.

- Developed policy and programs used by DOW to respond to water quality issues.
- Designed and performed laboratory and field research studies of rivers throughout Colorado to define and quantify impacts of pollutants to aquatic ecosystems. Projects included efforts to create biological stream standard proposals for Colorado's eastern plains warm water streams and rivers and mountain trout streams. Potential biological stream standards were developed using results from genetic analysis of trout and aquatic macroinvertebrates, fish community structure modeling and stress hormone response studies on a variety of fish species. Ancillary studies included a multi-year monitoring program of the Eagle River, Arkansas River and Clear Creek to assess efficacy of remediation programs and systematic studies of the fish genera *Phoxinus* and *Cottus* in Colorado.
- Wrote and submitted successful grant applications to receive funding from US EPA, Colorado Department of Public Health and private enterprise for field and laboratory studies.
- Participated in state and federal Superfund and CERCLA by review and/or development of remedial investigation documents, feasibility studies and remedial action plans; negotiated for the state in settlement actions involving fish kills and CERCLA actions.
- Created DOW position in rulemaking hearings for the Colorado Water Quality Control Commission (WQCC) through which stream standards and use classifications are adopted.
- Member Colorado 319 Nonpoint Pollution Task Force.
- Appointed by WQCC to rewrite Colorado Stream Standards for nitrogen compounds.
- Testified as expert witness in court proceedings and rulemaking hearing of the WQCC.

April 1984 -  
July 1987

**Coldwater Program Specialist, DOW**

- Developed, implemented and monitored statewide DOW coldwater fishery program.
- Developed annual budgets for DOW—fish hatcheries, aquatics section and aquatic research—\$6 million/year.
- Developed statewide DOW fish program budget, including hatcheries.
- Assisted DOW fish hatcheries in increasing production and efficiency.
- Co-authored report that resulted in the reorganization of the DOW fish hatchery system.
- Provided WQCC with technical information regarding water quality issues such as mine drainage.

July 1979 -  
April 1984

**Warmwater Program Specialist, DOW**

- Developed, implemented and monitored statewide DOW warmwater fishery program.
- Prepared DOW response to legislative queries regarding annual budget.
- Worked with fish hatcheries to increase production and efficiency.
- Provided WQCC and Colorado Wildlife Commission with technical information regarding water quality issues such as nutrient enrichment and acid rain.

Sept. 1978 -  
July 1979

**Project Manager**

Camp, Dresser and McKee, Denver, Colorado.

- Prepared bids, planned and directed interdisciplinary studies. Wrote final reports for these studies.
- Represented power companies, coal mining and other underground mining corporations.

Sept. 1973 -  
Sept. 1978

**Research Biologist**

Colorado Water Quality Control Division, Denver, Colorado

- Planned and performed stream and river basin studies concerning impacts of mining, milling, agricultural, domestic and industrial effluents on water quality.
- Monitored and analyzed biological, chemical and physical components of aquatic ecosystems to determine impacts from effluents on these systems.
- Performed in situ assays to determine toxicity of pollutants to resident fish populations.
- Served as expert witness at public hearings and adjudicatory hearings.
- Served as member of subcommittee to develop Colorado water quality standards and use classifications.

Jan. 1971-  
May 1971

**College Instructor**

- Taught Human Anatomy and Physiology, University of Southern Colorado.

Sept. 1971-  
June, 1972

**High School Teacher**

Cathedral High School, Denver, Colorado.

- Taught high school biology and coached football and wrestling.

July 1968-  
Dec, 1970

**Research Assistant**

University of Louisville, Louisville, Kentucky

- Implemented a pre-impoundment study of the Salt River in central Kentucky. Collected and analyzed water quality samples, collected and identified aquatic macroinvertebrate and fish samples.
- Collected and analyzed samples measuring the movement of radioactive nucleotides through a spring-fed system, Doe Run in Kentucky.

Sept. 1966-      **Laboratory Assistant**  
 Dec. 1967.      Southern Colorado State College, Pueblo, Colorado.

- Taught laboratory sections in zoology, botany, plant physiology and ecology

## **PUBLIC SERVICE**

Colorado 319 Nonpoint Pollution Council. Voting member 1989-2001.

Cherry Creek Basin Authority. Voting member 2001-2005. Appointed by Governor of Colorado.

## **PAPERS PRESENTED AT PROFESSIONAL MEETINGS**

Woodling, J. 1984. Acid precipitation impacts in the upper Colorado River Basin, a long-term situation. Upper Basin Subtechnical Committee. Western Association of Fish and Wildlife Agencies. Las Vegas, Nevada.

Woodling, J. 1984. Potential impacts on aquatic systems of Colorado attributable to acid precipitation. 9th Annual Colorado Water Workshop. Rural Communities Institute. Gunnison, Colorado.

Woodling, J. 1984. Biologic recovery of Coal Creek: A Colorado stream impacted by mine drainage. 114th Annual Meeting of the American Fisheries Society. Ithaca, New York.

Woodling, J. 1994. The South Platte River from Denver to Nebraska: Water quality monitoring is not a simple process. The South Platte River Forum. Greeley, Colorado.

Jones, R.E., K.H. Lopez, T. Maldonado, T.R. Summers, C.H. Summers, C. Propper, and J. Woodling. 1995. Unilateral ovariectomy influences hypothalamus catecholamine asymmetries in a lizard that exhibits alternation of ovulation. Annual Western Regional Conference on Comparative Endocrinology. Seattle, Washington.

Norris, D.O., S. Felt, J. Woodling, and R.M. Doris. 1995. Internal axis of brown trout, *Salmo trutta*, living in metal-contaminated waters of the Eagle River, Colorado. Annual Western Regional Conference on Comparative Endocrinology. Seattle, Washington.

Woodling, J. 1995. Mine reclamation: What works, what doesn't at the close of the 20th Century. 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Denver, Colorado.

Nykerk, S. and J. Woodling. 1996. Nutrient patterns in the mainstem South Platte River, Denver to Julesburg, Colorado: Seasonal and temporal variations, a long-term Tom Sawyer monitoring program. Platte River Basin Ecosystem Symposium. Kearney, Nebraska.

Woodling, J. 1996. What if anything is a redbelly dace in Colorado. 45th annual workshop. Great Plains Fisheries Workers Workshop. Great Plains Fisheries Workers Association. Fort Collins, Colorado.

Woodling, J. 1996. Physiological and weight changes of wild brown trout inhabiting waters with acutely toxic cadmium and zinc concentrations: an *in situ* study. International Congress on the biology of fishes. San Francisco State University. San Francisco, California.

Woodling, J. and S. Brinkman. 1999. Effects of pre-exposure on toxicity of cadmium and zinc in combination to young brown trout (*Salmo trutta*). Society of Environmental Toxicology and Chemistry. Twentieth National Meeting. Philadelphia, Pennsylvania.

Woodling, J., S. Albeke, S. Nykerk. 2000. Fish community stability and change in the eastern plains streams of Colorado from the 1970s to the new millennia. American Fisheries Society, National Meeting. St. Louis, Missouri.

Woodling, J, T. Maldonado, D.O. Norris and A. Vajada. 2003. Initial observations of intersex fish in the eastern plains streams of Colorado. American Fisheries Society, National Meeting, Quebec, Canada.

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- Todd, J., J. Woodling and D. Reiser. 1983. Re-establishment of Aquatic Biota in a Stream Affected by Acid Mine Drainage. In: Issues and Techniques in Management of Impacted Western Wildlife. Thorne Institute, Boulder, CO.
- Woodling, J. 1985. Colorado's Little Fish. Colorado Division of Wildlife, Denver, CO. 77 pp.
- Woodling, J. 1994. Fisheries Records: Alamosa River. pp. 228-235 in Proceedings: Summitville Forum (95). H.H. Posey, J.A. Pendleton, D. Vanzyl, eds. Colorado Geological Survey, Special Pub. 38.
- Jones, R.E., K.H. Lopez, T.A. Maldonado, T.R. Summers, C.L. Summers, C.R. Propper and J.D. Woodling. 1997. Unilateral ovariectomy influences hypothalamic monoamine asymmetries in a lizard (*Anolis*) that experiences alternation of ovulation. General and Comparative Endocrinology. 108:306-315.
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- Albeke, S. and J. Woodling. 2001. Use of regional standard weight equations to assess body condition of feral brown trout (*Salmo trutta*) populations exposed to environmental stress such as elevated metal concentrations. Journal of Freshwater Ecology. 16:501-508.
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- Kreiser B.R., J.B. Mitton and J.D. Woodling. 2001. Phylogeography of the plains killifish, *Fundulus zebrinus*. Evolution. 55:339-350.
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- Brinkman, S. and J. Woodling. 2005. Acute and chronic toxicity of zinc to mottled sculpin (*Cottus bairdi*) in high hardness water. Environmental Toxicology and Chemistry. 24:1515-1517.
- Woodling J.D., E.M. Lopez, T.A. Maldonado, D.O. Norris, A. Vajda. 2006. Intersex and other reproductive disruption of fish in wastewater dominated Colorado streams. Comparative Biochemistry and Physiology, Part C. 144:10-15.
- Vajda, A. M.; Barber, L. B.; Gray, J. L.; Lopez, E. M.; Woodling, J. D.; Norris, D. O. 2008. Reproductive disruption in fish downstream of an estrogenic wastewater effluent. Environ. Sci. Technol. 42, 3407– 3414.
- Brinkman, S., A. Vajda, J. Woodling. 2009. Chronic toxicity of ammonia to rainbow trout. 2009. Transactions of the American Fisheries Society. 138:433-440.
- Woodling John. 2011. The ghost mayfly. In: Wading for bugs, exploring streams with the experts. Li, J.L. and M.T. Barbour eds. Oregon State University Press. Corvallis, Oregon.

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- Woodling, J. 1982. Acid Rain in Colorado. In: Colorado Streamside. Colorado Council of Trout Unlimited. Winter 1982.
- Woodling, J. 1986. What did I catch? In: Colorado Outdoors. Colorado Division of Wildlife. 35:10-11.
- Woodling, J. 1987. Crappie. In: Colorado Outdoors. Colorado Division of Wildlife 36:16-19.
- Woodling, J. 1994. Listen to the murmur of the cottonwood trees. In: Colorado Outdoors. Colorado Division of Wildlife. 43:28-30.
- Woodling, J. 2004. How many fish could a garter snake eat if a garter snake could eat fish? Colorado Fishing Guide No. 13. Colorado Division of Wildlife. Denver, Colorado.

## **REPORTS PUBLISHED BY COLORADO DEPARTMENT OF HEALTH, COLORADO DIVISION OF WILDLIFE OR EAGLE RIVER WATERSHED COUNCIL**

- Woodling, J. 1974. Water quality investigations of the mainstem Colorado River, Dotsero to Utah. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 45 pp.
- Woodling, J. 1974. Water quality and benthic investigation of the San Miguel River Basin. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 47 pp.
- Woodling, J. 1975. Investigations of the Aquatic Ecosystems of Piceance on Yellow Creeks, Northwestern Colorado. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 27 pp.
- Woodling, J. 1975. Water quality investigations of the North Fork of the Gunnison River, Delta and Gunnison Counties, Colorado. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 14 pp.
- Woodling, J. 1975. The upper Gunnison River Drainage. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 70 pp.
- Woodling, J. 1976. Effects of mining activities on Willow Creek, Mineral County, Colorado. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 15 pp.
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- Woodling, J. 1977. Chemical and physical aspects of the Roan Creek Ecosystem. Colorado Water Quality Control Division. Colorado Department of Health, Denver, Colorado. 54 pp.
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- Woodling, J. 1980. Acid Precipitation impacts in Colorado - a long-term situation. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 13 pp.
- Woodling, J. and J. Whittaker. 1983. Efficiency and organizational analysis of the Colorado Division of Wildlife's fish hatchery system. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 49 pp.

Woodling, J. 1990. Intensive creel census of Clear Creek, Jefferson and Clear Creek Counties, May through September 1989. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 24 pp.

Woodling, J. 1990. Use attainability study California Gulch. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 34 pp.

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Horn B.J. and J. Woodling, J. 1990. Biological monitoring assessment of Eagle River Superfund Site, Eagle County, Colorado. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 24 pp.

Woodling, J. 1991. Straight Creek, Summit County. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 13 pp.

Woodling, J. 1991. Intensive creel census: Ridgeway Reservoir, Ouray County, Colorado, April through September 1990. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 6 pp.

Woodling, J. 1992. Episodic metal contamination of the Arkansas River by non-point pollution from California Gulch. Colorado Department of Natural Resources. Colorado Division of Wildlife. 11 pp.

Woodling, J. 1993. Annual Report on the Biological Assessment of the Eagle River Superfund Site, Eagle County, Colorado. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 34 pp.

Woodling, J. 1993. Investigations of Impacts of Point and Non-Point Pollution on Eastern Plains Fisheries in Colorado: South Platte and Arkansas Rivers. Annual Segment Report, Federal Aid Project F-84-R-6. Colorado Division of Wildlife, Denver, Colorado.

Woodling, J. And R. DeWeese. 1993. Assessment of the trout population in the upper Arkansas River Basin of Central Colorado. U.S. Bureau of Reclamation. Loveland, Colorado. 34 pp.

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Woodling, J. 1995. Annual Report on the Biological Assessment of the Eagle River Superfund Site, Eagle County, Colorado. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 48 pp.

Woodling, J. 1996. Physical habitat analysis and biological assessment. Appendix B. Use attainability analysis, Alamosa River Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 74 pp.

Woodling, J. 1996. Annual Report on the Biological Assessment of the Eagle River Superfund Site, Eagle County, Colorado. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 83 pp.

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Woodling, J. And J. Dorsch. 1997. Annual Report on the Biological Assessment of the Eagle River Superfund Site, Eagle County, Colorado. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 99 pp.

Woodling, J., D. Langlois and W. Andree. 1998. Intensive Creel Census Eagle River, Eagle County, Colorado, July through October, 1998. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 20 pp.

Woodling, J. and Dan Chase. 1998. Annual Biological Assessment of the Eagle River Superfund Site, Eagle County, Colorado. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 107 pp.

Woodling, J., M. Gasaway and J. Dominquez. 1999. Biological Assessment of Clear Creek. Colorado Department of Natural Resources. Colorado Division of Wildlife, Denver, Colorado. 98 pp.

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- Woodling J. A. and A. Rollings 2008. Annual Biological Assessment of the Eagle River Superfund Site. Eagle County, Colorado. Eagle River Watershed Council. Avon, Colorado.
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