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*Attorneys for Applicant*

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION  
OF UNITED WATER IDAHO INC. FOR  
AUTHORITY TO INCREASE ITS RATES  
AND CHARGES FOR WATER SERVICE IN  
THE STATE OF IDAHO

Case No. UWI-W-04-04

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

EXHIBIT 13 TO THE

DIRECT TESTIMONY OF A.T. WALLACE

## BIOGRAPHICAL DATA AND RESUME

**NAME:** Alfred T. Wallace

**BORN:** Cranford, New Jersey, November 26, 1935

**PRESENT ADDRESS:** 836 E. 8<sup>th</sup> Street, Moscow, ID 83843

**PRESENT OCCUPATION:** Professor of Civil (Sanitary) Engineering,  
University of Idaho

**EDUCATION:** B.S. (San. Eng'g.), Rutgers University – June, 1959  
M.S. University of Wisconsin – June, 1960  
Ph.D. University of Wisconsin – January, 1965  
Minor Field: Chemical Engineering

**TEACHING EXPERIENCE:**

Sept., 1960 – June, 1962 - Lecturer in Physical and Chemical Science, Purdue University (Calumet Center), Hammond, Indiana.

Sept., 1962 – Jan., 1965 - Instructor in Sanitary Engineering, University of Wisconsin.

Jan., 1965 – Aug., 1967 - Assistant Professor – Environmental Systems Engineering, Clemson University. Director of short-school program for water and sewage plant operators.

Sept., 1967 – June, 1971 - Associate Professor of Civil Engineering, University of Idaho. Co-director of short school program for water and sewage plant operators, 1968-78.

June, 1971 – June, 2002 - Professor of Civil Engineering, University of Idaho  
- Currently – Professor Emeritus

### OTHER PROFESSIONAL EXPERIENCE:

June, 1957 – Sept., 1957 - USPHS, Washington, D.C. Water pollution control program administration.

Sept., 1957 – June, 1958 - Triangle Conduit and Cable Co., New Brunswick, NJ, Design of Golf Course Irrigation Systems.

June, 1958 – Sept., 1958 - USPHS, Cincinnati, OH. Research on the Fate of Radioactivity in the Environment.

**June, 1960 – June, 1962 - American Oil Co., Whiting, IN. Design and Analysis of Treatment Facilities for Refinery and Petrochemicals Wastes.**

**PARTICIPATION AS A LECTURER IN PROFESSIONAL SHORT COURSES AND SEMINARS:**

**From 1967 through 1974 – 15 throughout the United States.**

**“Land Application of Municipal Wastewater,” Sponsored by the Technology Transfer Program, U.S. Environmental Protection Agency, Denver, Chicago & Albuquerque, 1975. Seattle, 1978. Chicago, Atlanta, Boston, Phoenix, Boise, 1979.**

**“Lagoon Upgrading Technology” Sponsored by Utah State University and EPA, Logan, Utah. 1978.**

**“Innovative/Alternative Technology” Sponsored by Technology Transfer Program. U.S. Environmental Protection Agency. Seminar repeated 10 times through the U.S. (1979).**

**“New Municipal Wastewater Treatment Technology” Sponsored by U.S. Environmental Protection Agency. Seminar repeated 11 times through the U.S. (1984).**

**“Field Evaluation of Innovative/Alternative Technologies” Sponsored by U.S. Environmental Protection Agency. Seminar repeated five times throughout the U.S. (1989).**

**SUMMARY OF PAST CONSULTING ASSIGNMENTS:**

**1966 through 1990: Over 100 major assignments for a variety of private and public clients. Water and wastewater treatment plant evaluation, land treatment evaluations and designs, industrial waste treatment studies and designs, wastewater reuse studies, operations manuals, equipment evaluation, rate studies, taste and odor studies, corrosion studies, design reviews and litigation support.**

**1988 to present: Representative assignments**

**U.S. Environmental Protection Agency, Washington, D.C. Comprehensive Performance Evaluations (CPEs) at six new wastewater treatment plants – 1988-1990.**

**Sorenson Engineering, Inc., Idaho Falls, ID. Study of the impacts of a new barley malting plant on the Idaho Falls wastewater treatment facility – 1989-1990.**

**Sorenson Engineering, Inc., Idaho Falls, ID. Operations and Maintenance Manual for Preston, ID WWTP – 1990.**

**Seneca Foods Corp., Prosser, WA. Environmental Impact Statement for new industrial wastewater treatment facility (interdisciplinary team member) – 1990.**

**Ebasco Services, Inc., Richland, WA. Process consultant on an effluent treatment system for the Hanford reservation. 1990-91.**

**Holladay Engineering, Payette, ID. Process consultant for new water treatment facilities for Weiser, ID. 1990-91.**

**CES, Inc., Reno, NV. Wastewater facilities design review for Lake Havasu, AZ. 1990-91.**

**Anderson-Perry Associates, Walla Walla, WA. Process consultant on the Corps of Engineers water systems at Dworshak Dam and Reservoir. 1991.**

**Hedco Engineering Co., Troy, ID. Process consultant for new water plant at Juliaetta, ID. 1991.**

**Idaho Transportation Dept., Coeur d'Alene, ID. Consultant on mitigation of acid drainage caused by highway fill. 1991-92.**

**Anderson-Perry Associates, Walla Walla, WA. Process consultant on wastewater facilities plans for Connell, WA and Ontario, OR. 1992.**

**City of Whitehorse, Yukon, Canada. Review of wastewater facilities plan for an R.I. System. 1992.**

**CDM Engineers, Cambridge, MA. Advisory committee member for facilities planning at Plymouth, MA involving land treatment alternatives. 1992.**

**Power Engineers, Inc., Hailey, ID. Consultant on treatment of mine drainage and disposal of resultant sludges. 1992.**

**CDM Engineers, Denver, CO. Consultant on site evaluation for rapid infiltration polishing of secondary effluent with recovery and reuse options. 1993.**

**City of Elko, NV. Consultant on modifications to existing rapid infiltration system. 1993.**

**Tree Top, Inc., Prosser, WA. Chairman of Technical Advisory Committee with oversight responsibility for wastewater treatment system operation. 1991-present.**

**Post Falls, ID. Peer review of wastewater facilities plan (with Dr. L. Esvelt). 1994.**

**Asotin, WA. Design and operations analysis of oxidation ditch wastewater system. 1994.**

**JUB Engineers, Kennewick, WA. Consultant on wastewater facilities plan for City of Kennewick, WA. 1994-2000.**

**Sunshine Mining Co., Kellogg, ID. Consultant on mine water and milling wastewater treatment. 1995.**

**JUB Engineers, Boise, ID. Modeling study of outfall performance for City of McCall, ID. 1995.**

**Sprenger-Grubb & Assoc., Hailey, ID Design and operations analysis on two wastewater treatment plants. 1995-96.**

**City of Meridian, ID. Review of wastewater facilities plan. 1997.**

**Teton Valley Homeowners Assoc., Driggs, ID. Review of wastewater treatment options for a planned unit development. 1997.**

**JUB Engineers, Kennewick, WA. Modeling study of outfall performance for City of Kennewick, 1997.**

**Evans, Keane, P.C., Boise, ID. Assist in mediation of interpretation of code requirements for sewer system. 1997.**

**JUB Engineers, Boise, ID. Consultant on biological removal of N and P for Payette, ID. 1998.**

**Hammond, Collier & Wade-Livingstone, Wenatchee, WA. Consultant on wastewater treatment, reclamation and reuse. 1998-1999.**

**Sturdy Engineering Co., Mount Vernon, WA. Consultant on wastewater treatment plant upgrade, Concrete, WA. 1998-1999.**

**Kimball Engineering, Hayden Lake, ID. Consultant on several issues involving upgrades to wastewater plants at Moscow, ID., Walla Walla, WA., and Spokane, WA. 1999. (The Moscow work involved review of temperature and dissolved oxygen issues addressed by the TMDL process).**

**G. V. Jones & Associates, Anchorage, AK. Consultant (peer review) for modifications to wastewater plant at Cordova, AK. 1998-99.**

**Potlatch, Inc., Lewiston, ID. Analysis and modifications to 30 mgd aerated lagoon system. 1999.**

**United Water – Idaho, Boise, ID. Expert testimony on rate increase request to IPUC. 2000.**

**JUB Engineers, Coeur d’Alene, ID. Process assistance on corrosion prevention program for Shoshone Co, water district and design of surface water treatment plant at Riverside, ID. 2000.**

**Outlet Bay Water/Sewer District, Priest Lake, ID. Review of wastewater facilities planning proposals. 2000.**

**JUB Engineers, Coeur d’Alene, ID. Review of TMDL and resulting draft permits for the Mullan and Page wastewater treatment plants (Silver Valley). 2000.**

**JUB Engineers, Coeur d’Alene, ID. Process assistance for treatment of aluminum anodizing water. 2001.**

**JUB Engineers, Coeur d’Alene, ID. Process assistance for modifications to oxidation ditch system, Brewster, WA. 2001-2002.**

**Hammond, Collier & Wade Livingstone, Wenatchee, WA. Process assistance for modifications (including biological N removal) to wastewater plant at Stevens Pass, WA. 2001-2002.**

**JUB Engineers, Coeur d’Alene, ID. Team member certified by Sandia National Laboratory to teach and perform risk/vulnerability assessments for water systems. Presented three RAM-W workshops. Assisted with an assessment for Billings, MT. 2002. Currently assisting JUB with development of a protocol for pilot-plant tests to remove heavy metals and phosphorus from a lagoon effluent.**

**Ecowater Systems, Inc., Moscow, ID. Process engineering for three water systems to remove iron, sulfide and hardness at local mobile home courts. 2002-2004.**

**HONORARY SOCIETIES:**

**Tau Beta Pi – 1958**

**Sigma Xi – 1964**

**REGISTRATION:**

**Professional Engineer – Idaho, Washington, Oregon**

**Diplomate – American Academy of Environmental Engineers, Water and Wastewater Speciality Certification.**

**American Arbitration Association – Construction Industry Arbitration Panelist.**

**PUBLICATIONS:**

**List available upon request.**