

# Keith Thomsen, Dr.Env., PE, DEE

## Washington State University

### Education and Training

B.S. in General Engineering, Oregon State University, Corvallis, OR  
M.S. in Civil Engineering, Oregon State University, Corvallis, OR  
MBA in Finance, California State University, Fresno, CA  
Dr.Env., University of California Los Angeles, Los Angeles, CA

### Work Experience

2008 – 09      Manager, Bioproducts Science and Engineering Laboratory, Washington State University, Richland, WA  
1997 - 2008    President and Principal Engineer, BioContractors, Inc., Cerritos, CA  
1997 – 2002    Doctoral Researcher, University of California Los Angeles, Los Angeles, CA  
1995 – 1997    Vice President and National Solid Waste Program Director, Earth Tech, Inc., Irvine, CA  
1994 – 1995    Manager of Engineering Services, AmeriClean Environmental Services, Inc., Long Beach, CA  
1991 – 1994    Regional Solid Waste Director, Harding Lawson Associates, Santa Ana, CA  
1989 – 1991    Senior Environmental Engineer, Metropolitan Service District, Portland, OR  
1985 – 1989    Environmental Engineer, Pacific Gas and Electric Company, San Francisco, CA  
1982-1985      Research Engineer, Wastewater Engineering Laboratory, Oregon State University, Corvallis, OR

### Professional Qualifications

Registered Professional Civil Engineer, State of Oregon, Registration No. 17922 PE  
Registered Professional Civil Engineer, State of Arizona, Certificate No. 30904  
Diplomate Environmental Engineer, American Academy of Environmental Engineers  
Current 29 CFR Part 1910.120 Hazardous Waste Worker and Site Supervisor

### Professional Memberships

American Society of Civil Engineers  
American Academy of Environmental Engineers  
Solid Waste Association of North America  
International Water Association

### Major Projects

- Renewable Energy Project Feasibility Reviews, Energy Trust of Oregon, Portland, Oregon. Project Manager for the review and analysis of the technical and economic feasibility of more than 50 renewable energy projects (anaerobic digestion or co-digestion, landfill gas, wastewater treatment plants and biomass) under consideration for subsidy funding of above market costs by the Energy Trust of Oregon.
- Wastewater Treatment Plant Sludge Digester Conversion, Orange County Sanitation District, Plant 1 Facility, Fountain Valley, CA. Project Manager for the development of a

demonstration of concept research project to evaluate the technical performance of thermophilic anaerobic sewage sludge digestion in meeting the new Class A Biosolids rule. The project involved the development of a detailed conversion plan, including filling, startup, testing and ongoing operations monitoring.

- Terminal Island Waste Water Treatment Plant Sludge Digester Conversion, City of Los Angeles, Bureau of Sanitation. Project Manager for the conversion of an operating mesophilic anaerobic digester at the Terminal Island Treatment Plant in San Pedro, CA to thermophilic operation. The project involved the development of a detailed conversion plan, including filling, startup and ongoing operations. Services included digester sampling and testing for volatile fatty acids (VFAs), gas production and draw/fill control necessary to initiate sustained, stable thermophilic operations at the plant.
- Water and Wastewater System Privatization Analysis, City of Chester, New Jersey. Technical advisor for the development of a systems-based analysis of the feasibility of privatizing the water distribution system and the wastewater management system for the city. The project included conducting a system condition assessment, market research to identify potential bidders, an economic and regulatory feasibility analysis as well as providing the city with procurement and negotiation assistance.
- Water and Wastewater System Privatization Analysis, United States Air Force, Air Force Center for Environmental Excellence, Brooks Air Force Base. Technical advisor for the development of a systems-based analysis of the feasibility of privatizing the water distribution system and the wastewater management system for six US Air Force bases in the western US. The project included conducting a system condition assessment, market research to identify potential bidders, an economic and regulatory feasibility analysis as well as providing the Base Engineer and Base Commanders with procurement and negotiation assistance, when requested.
- Metro/Riedel Municipal Solid Waste Composting Plant Design, Engineering and Construction, Portland, Oregon. Project Manager for a \$26 million dollar, 800 ton per day municipal solid waste composting and materials recovery facility. The facility included an integrated mixed waste processing plant with both materials recovery processing and mixed organics composting capabilities. Responsible for all aspects of construction management, including review and approval of invoices and acceptance of completed work.
- Hazardous waste landfill design and development in San Luis Potosi Province, Mexico. Directed the design and construction of the Guadalcazar Hazardous Waste Landfill, in San Luis Potosi Province, Mexico. The project included assisting the client obtain necessary permits from appropriate regulatory agencies in Mexico (SEDESOL, State Governments, etc.), preparation of final design drawings and review of construction drawings. Project was designed to meet or exceed all relevant US EPA design criteria.