

# ART FARQUARDT, PH.D.

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## EXECUTIVE SUMMARY

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Environmental chemist, water quality, and sediment remediation expert with strong regulatory expertise, management skills, and extensive experience leading multi-disciplinary teams. Over 10 years experience managing water quality permitting and compliance projects with a focus on Clean Water Act (CWA) compliance and National Pollutant Discharge Elimination System (NPDES) permitting. Expert in antidegradation analysis, developing technical and regulatory justifications and leading toxicity reduction evaluations (TREs). Thorough knowledge of federal, state, and administrative policies and procedures. Demonstrated talent for planning and managing technically complex multi-disciplinary projects. Skilled problem solver dedicated to finding creative, cost effective solutions to achieve technical, programmatic, and policy goals. Experience performing complex, controversial, and highly visible work with diverse populations and consistently exercising tact and sound judgement.

Current Federal Acquisition Certification – Level II COR

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## CORE COMPETENCIES

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- Management of Technically Complex Environmental Projects
- Evaluation of Environmental Compliance
- Drafting of Environmental Laws & Regulations
- Legislation & Regulatory Analysis
- Antidegradation Analysis
- Client Relationship Management
- Strategic Planning & Project Budgeting
- Contract Management
- Team Leadership & Mentoring

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## PROFESSIONAL EXPERIENCE

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### U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

2015 - Present

#### *Environmental Remediation Specialist*

Manage USAID's remediation of dioxin contaminated hotspots in Vietnam. Provide technical expertise and leadership to contractors implementing cutting-edge \$80MM soil remediation project. Review work plans, progress reports, expenditures, accruals, obligations, and progress against performance indicators. Coordinate extensive stakeholder engagement and outreach, draft key summary sections to address technical, regulatory, and logistical considerations. Cultivate strong partnerships with senior USG and GVN officials, including congressional staff, and coordinate activities with other USG agencies. Served as acting COR for several months on all contracts and supervised Foreign Service National Environmental Engineer.

#### **KEY ACHIEVEMENTS:**

- Drafted comprehensive \$20MM Justification and Approval document for three contract modifications in response to Phase 1 challenges and quickly obtained Agency Administrator approval.

### ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

2012 - 2015

#### *Deputy Director – Division of Water*

Guided development and implementation of Division's water quality presentation goals, programs, and policies. Managed three subdivisions – Water Quality, Administration and Information Technology, and Facilities Construction – overseeing team of over 130 direct and indirect reports. Reviewed budgets, assisted in financial management duties, and reported to Office of Management & Budget and the Legislature. Efficiently managed resources and ensured implementation of department and Division regulations. Executed state policy to permit resource development, monitor compliance, liaise with stakeholders, and develop short-term and long-term strategic plans. Provided management support for stakeholder workgroup; co-authored workgroup report addressing antidegradation implementation method. Established effective communications with EPA, state agencies, tribes, permittees, and general public. Oversaw development of revised wastewater general permit for large commercial passenger vessels.

#### **KEY ACHIEVEMENTS:**

- Secured funding from EPA for Wetlands Program Development Grant to develop state-wide wetlands program plan.
- Presented at Alaska Forum on the Environment, focusing on updating human health criteria and incorporate more accurate fish consumption rates.
- Managed wastewater engineering support and plan review group and vetted and hired new program manager and lead engineer.

**ROBINSON, INC.**

2006 - 2012

*Project Scientist III*

Led development of responsible regulatory and operational solutions to water quality monitoring. Found solutions to environmental impact assessment challenges, including new/expanded wastewater discharges, alternative hydrological flow regimes, and socioeconomic evaluations of mitigating alternatives. Oversaw toxicity reduction evaluation investigations to determine cause of failed toxicity tests. Provided technical support for third party legal challenges to client projects, and provided technical expertise for contested permit public hearings, meetings with regulatory staff, and public hearings on proposed regulatory changes. Built and managed relationships with key personnel in regulatory agencies.

**KEY ACHIEVEMENTS:**

- Designed model quantitative antidegradation analysis adopted by state regulators.
- Addressed environmental fate and transport, and ecotoxicology for Water Quality Chapter of Sacramento-San Joaquin Bay Delta Conservation Plan.
- Recognized as Clean Water Act expert in relation to antidegradation analysis, toxicity reduction evaluations, and water-effect ratio studies.

**UNIVERSITY OF CALIFORNIA, DAVIS**

1998 - 2006

*Doctoral Research – Department of Civil & Environmental Engineering*

Determined mechanics and kinetics for when sorption acts as controlling process in environmental fate and transport of organophosphate pesticides. Distinguished polar and non-polar pesticide binding interactions to minerals versus organic matter in soils and sediment. Employed laboratory experiments to model equilibrium and rate-controlled contaminant release on soils and field collected suspended sediment. Linked modeled release profiles with dynamic sediment tidal re-suspension events to determine controlling estuary fate processes.

**AGNUS, INC.**

1994-1998

*Chemist*

Developed and tested transdermal and mucosal drug delivery platform release profiles and adhesion under good manufacturing and laboratory procedures (GMP/GLP). Trained in emergency hazardous spill response and cleanup, confined spaces, and certified with Level-A protection.

**BIOTECH, INC.**

1992-1993

*Analytical Chemist*

Built out analytical chemistry laboratory, maintained inventory and control of raw materials. Conducted chemical, physical, and spectroscopic analysis of raw materials and final product under GLP. Performed bench scale and pilot scale manufacturing under GMP for over-the-counter pharmaceutical suspension and performed product stability testing.

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**E D U C A T I O N**

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**UNIVERSITY OF CALIFORNIA, DAVIS – Davis, CA**

Ph.D. – Environmental Chemistry

Agricultural &amp; Environmental Chemistry Graduate Group

Dissertation: Role of organic matter quality and mineral surfaces for pesticide sorption on soils and suspended sediments

**GEORGETOWN UNIVERSITY – Washington, D.C.**

Bachelor of Science - Chemistry