

RICHARD P. KEMMAN
Environmental Scientist/Quality Assurance Specialist
Compliance Services International

SUMMARY OF EXPERIENCE

PROFESSIONAL EXPERIENCE

Over eighteen years experience conducting agricultural pesticide research. Over fifteen years in the agricultural pesticide research field functioning as a staff Environmental Scientist. Three years experience with large scale GLP research projects assessing impacts of pesticides on free-ranging wildlife populations in agricultural and urban settings. Worked in a supervisory capacity, collected and analyzed soil, water and biological data. Performed environmental site characterizations in Iowa, Washington, and South Carolina. Led team in selecting Iowa farm ponds for future studies. Conducted laboratory research including residue analysis, bioassays, and dosing studies. Quality Assurance Specialist involved in all aspects of QA including protocol review, in-process audits, final report reviews and facility audits.

15 years Agrochemical Registration and Research

Administered FIFRA magnitude of residue studies of raw agricultural commodities (RAC) and processed fraction (PF) studies

Environmental fate and transport of pesticides

Researched and wrote monographs for Basic Copper Sulfate and mono/dipotassium salts of phosphorous acid

Prepared over 50 analytical chemistry reports for RAC/PF studies and 5 acute and chronic studies

Supervised 3 people conducting environmental site characterizations/risk assessments

Used radio telemetry in an effort to study the impact of pesticide use on "home range" size and use patterns

Worked on data compensation issues including data and cost analysis.

Review and evaluation of registration data packages for use in data compensation cases.

Quality Assurance Specialist involved in all aspects of study review.

Researched and wrote reports regarding the impacts of various pesticides on threatened and endangered species.

Worked on multiple projects researching whether pesticides used on various crops are likely to adversely affect threatened and endangered species based on specific use scenarios.

CREDENTIALS

B.A. 1987 Whitworth College - Biology

M.S. 1993 Clemson University - Environmental Toxicology

PROFESSIONAL AFFILIATIONS/APPOINTMENTS

Member, Society of Environmental Toxicology and Chemistry (1996-Present)

Member, Pacific Regional Chapter of the Society of Quality Assurance (1995 to Present)

Member, Society of Quality Assurance (2002 to present)

PROJECT EXPERIENCE

Study Director for FIFRA magnitude of residue studies of raw agricultural commodities (RAC) and processed fraction (PF) studies. Responsible for general oversight of studies including protocol development, reviewing progress, critical reviews and final report writing.

Product manager for nationally marketed pesticide. Duties include oversight of all federal and state registration activities as well as general cost tracking.

Prepared over 50 analytical chemistry reports for RAC/PF studies, 5 acute and chronic toxicity studies, 2 field dissipation studies, 2 storage stability studies and 3 RAC/PF field studies for submission under format EPA PR Notice 86-5. Performed both quality assurance (QA) and quality control (QC) audits of analytical data.

Prepared budgets, cost tracking systems, study timelines and operations progress reports for effective program management.

Researched and wrote monographs for Basic Copper Sulfate and mono/dipotassium salts of phosphorous acid.

Supervised a 3 person research team conducting environmental site characterizations/risk assessments for The Institute of Wildlife and Environmental Toxicology, Clemson University.

Collected samples for large scale field studies, including: turf, soil, blood, crop, fecal, avian censusing, artificial and live nest monitoring, and mist netting.

Tracked bobwhite quail using radio telemetry in an effort to study the impact of pesticide use on “home range” size and use patterns.

Live-trapped small mammals in an effort to study the impact of pesticide use on “home range” size and use patterns.

Performed environmental site characterizations/risk assessments in order to assess the suitability of individual sites for use as study sites. Work included quantifying vegetative buffer zones and drainage areas surrounding farm ponds in order to assess pesticide run-off potential.

Author of the terrestrial fate/wildlife toxicology section of a statewide environmental impact statement used to manage aquatic herbicide use in various natural water bodies. The topics for five (5) compounds were; effects of the compounds and treated water on non-target terrestrial crops and wildlife.

Experience with endangered species issues including writing species exclusions for certain pesticide uses, identifying protections in place on forest service, national wildlife refuge, department of natural resources and other federal lands, etc.

PROFESSIONAL EMPLOYMENT

Environmental Scientist (1994 - Present) Compliance Services International Tacoma, Washington

Study Director for FIFRA magnitude of residue studies of raw agricultural commodities (RAC) and processed fraction (PF) studies. Duties include drafting study protocols, preparing field notebooks, monitoring progress of field and laboratory work, reviewing raw data, responding to QA audits and writing final study reports for EPA submission. Maintenance of appropriate facility, study and agency records for compliance with SOPs and GLP regulations. Other responsibilities include preparation and maintenance of budgets, cost tracking systems, study timelines and progress reports for effective program management. QA and QC of analytical chemistry data, in-process analysis, protocols, final reports, etc. Preparation of analytical chemistry reports for RAC/PF studies, acute and chronic toxicity studies, field dissipation studies and storage stability studies for submission under format EPA PR Notice 86-5.

Helped implement and oversee effective changes in client cost tracking systems using Access database and Excel spreadsheet software.

Prepared analytical chemistry reports for a wide variety of pesticide registration guideline studies.

Performed Quality Assurance duties within the company.

Wrote multiple rationale to exclude or protect threatened and endangered species under different pesticide use scenarios.

Wildlife Technician II and Master's Candidate (1989-1993) The Institute of Wildlife and Environmental Toxicology Clemson University, Pendleton, South Carolina

Worked in a supervisory position as a member of a research team conducting large-scale GLP research projects assessing impacts of pesticides on free-ranging wildlife populations in rural and urban settings. Work included data collection and analysis; technical report writing; environmental site characterizations in Washington, Iowa, and South Carolina; avian censusing; avian density surveys; mist netting; nest box and live nest monitoring; telemetry; avian and mammal live trapping; blood, fecal, crop, and foot wash sample collection; carcass searching and efficiency trials; and necropsy. Supervision of three people in field and office settings.

PUBLICATIONS

Kemman, R. P. 1993. Differential Toxicity of Terbufos to Juvenile Crayfish (*Orconectes immunis* and *Procambarus clarkii*) and the Effect of Sediment on Terbufos Toxicity to Juvenile *Orconectes immunis*. Master's Thesis, Department of Environmental Toxicology, Clemson University.

ADDITIONAL TRAINING

2002 Basic Training. Good Laboratory Practices: Society of Quality Assurance.

2002 A Day in the Life of A GLP Auditor: Society of Quality Assurance.

1997 GLPs for Study Directors: Diane E. Bradway, Environmental Quality Assessment Services.

1997 GLPs for Management: Diane E. Bradway, Environmental Quality Assessment Services.

1997 Introduction to the FIFRA Good Laboratory Practice Standards: Diane E. Bradway, Environmental Quality Assessment Services.

1997 Pacific Region Society of Quality Assurance Meeting: March 24, 1997.

1996 Microsoft Access for Windows 95 - Fundamentals Class: Catapult, Inc.

1996 Broadcast/Row Sprayer Calibration for QA Professionals: Pacific Regional Chapter of the Society for Quality Assurance (PRCSQA).

1995 Auditing Field Trial Facilities and Studies : Compliance Services International - Study Director Training.

1995 Implementing and Maintaining GLP Compliance in the Laboratory: Pacific Regional Chapter of the Society for Quality Assurance (PRCSQA).

1995 Good Laboratory Practices and Field Training - Compliance Services International - Internal Training for Study Directors.

1994 Good Laboratory Practices and Field Training - Compliance Services International - Internal Training for Study Directors.