July 14, 1999

Ms. Jo Turner, Contract Manager
CALFED Bay-Delta Program
1416 Ninth Street, Room 1155
Sacramento, CA 95814

RE: April-June 1999 Quarterly Progress Report for B81615 (FGR8949OS)

Dear Ms. Turner:

The objective of this project is to provide data necessary for the Regional Water Quality Control Board to promulgate water quality standards for diazinon and chlorpyrifos which are protective of fish and wildlife in the Sacramento-San Joaquin watershed. Missing elements from the toxicity data base for the two organophosphate insecticides and a measure of joint toxicity between the two materials are generated by this project. With these data, the Criterion Maximum Concentration (CMC) and the Criterion Continuous Concentration (CCC) for diazinon and chlorpyrifos will be calculated and used in establishing water quality standards.

Previous work:
Prior to beginning the specific tasks of the contract, a draft Quality Assurance Project Plan (QAPP) was written and submitted to the CALFED peer review panel for review. The comments received were incorporated into the final QAPP that was approved prior to beginning the testing in Tasks 1 and 2.

I. Task 1A - An acute test with the snail *Physa spp.* on diazinon
A successful acute test was conducted at the Department of Fish and Game Aquatic Toxicology Laboratory. The toxicity test report has been completed and is under internal review.

II. Task 1B - Acute tests with the cladoceran *Ceriodaphnia dubia* on diazinon, chlorpyrifos, and a mixture of diazinon and chlorpyrifos
Three successful acute tests were conducted at the Department of Fish and Game Aquatic Toxicology Laboratory. The toxicity test reports have been completed and are under internal review.

III. Task 2 - A chronic test with the cladoceran *C. dubia* on chlorpyrifos
A successful acute test was conducted at the Department of Fish and Game Aquatic Toxicology Laboratory. The toxicity test report has been completed and is under internal review.

IV. Task 3 - Assess data and calculate CMC and CCC
No activity was undertaken on this task in this quarter.

Future work:

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All of the tests were successful from Tasks 1 and 2, and the toxicity test reports will be submitted to CALFED within the next month. These data will be used along with other toxicity information to recalculate CCC and CMC values. A final report modifying the water quality criteria for diazinon and chlorpyrifos will be submitted to CALFED by March 31, 2000.

Sincerely,

Brian Finlayson, Chief
Pesticide Investigations Unit

cc: George Faggella
Aquatic Toxicology Laboratory

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