

## Quarterly Programmatic Report

**Component Project Title:**            **Discriminating Between West-Side Sources of Nutrients and Organic Carbon Contributing to Algae Growth and Oxygen Demand in the San Joaquin River**  
**Component Project PI:** William T. Stringfellow and Nigel W. T. Quinn  
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**CALFED Project #:** 01-N61-?? (Contract not yet issued)  
**Quarter Ending:** September 30, 2001

	Name of Deliverable	Due date	% of Work completed	Date deliverable completed
<b>Task 1</b>	Sample collection	On-going through April 2002	42%	
<b>Task 2</b>	Sample analysis	On-going through April 2002	42%	
<b>Task 3</b>	Data analysis	On-going through April 2002	42%	
<b>Task 4</b>	Installation of monitoring station	October 30 <sup>th</sup> , 2001	10%	
<b>Task 5</b>	Installation of 24 bottle sampler	November 30 <sup>th</sup> , 2001	5%	
<b>Task 6</b>	Report preparation and presentation	Meetings: On-going through April Reports: October 5, 2001 January 5, 2001 April 5, 2001 July 5, 2001	42%	

### **Narrative**

Description of activities performed during the quarter, by task.

Task 1: Samples were collected every two weeks from the five locations specified in the proposal.

Task 2: Samples collected from the field have been analyzed for BOD, Chlorophyll *a*, TOC, VSS, TSS, and nutrients.

Task 3: Data for each sample set has been compiled in Excel spread sheets and evaluated. It is still too early in the study to draw conclusions. However, preliminary data demonstrate that wetland drainage have significantly higher BOD concentrations than agricultural drainage.

Task 4: The monitoring station at Salt Slough is ready for installation as soon as the CALFED/NFWF contract is in place. The Department of Fish and Game has provided the site for the station and the forms for the concrete pad have been installed. The concrete pad will be poured within three weeks.

Task 5: The 24-bottle sampler has been selected for purchase. Nothing further can be done on this task until the contract is in place.

Task 6: The PI's have attended SJR DO TAC meetings monthly and have prepared this quarterly report.

#### **Problems and delays encountered by task.**

List and discuss those parts of the original project plan that will not be accomplished in the project period (through June 30, 2002)

The issuance of a final contract between NFWF and the Department of Energy has been delayed by concerns over contract wording. Tasks 4 & 5 have been delayed because we do not have funds to purchase equipment and supplies. Tasks 1, 2, 3, & 6 have been funded internally until the CALFED/NFWF funds are received. We have adapted our effort to accommodate the lack of funding for Task 4 & 5 by increasing our man-hours spent in sampling. We have also focused our efforts in Task 2 on measurement of BOD and Chlorophyll *a*, the two most important parameters for this study. Nutrient analysis has been conducted as specified in the original contract, but we have not been able to institute the more sophisticated nutrient analysis methods we would like to use. As part of our adaptive research strategy, we have identified improving our detection limits for nutrients as a desirable goal.

#### **Other issues or comments.**

Provide information on the data/information base that will be available through September 30, 2001, which will serve as the basis for the initial project report, which is due December 31, 2001.

The majority of the information requested in the original proposal will be available for the final report on December 31, 2001. We have lost some resolution on the data because we have not been able to use bottle samplers.

Please identify your projected expenses for each of the next three months in the following quarter to assist in the timing of State bond sales which fund this project.

Month 1 \$ 24,602 Month 2 \$ 24,602 Month 3 \$ 24,602 Total for quarter \$ 73,807

Title: **Discriminating Between West-Side Sources of Nutrients and Organic Carbon Contributing to Algae Growth and Oxygen Demand in the San Joaquin River**

Applicant: W. T. Stringfellow & N. W. T. Quinn  
 CALFED Project Number: 01-N61-?? (Contract not yet issued)  
 Budget Year: June 1, 2001 – June 30, 2002  
 Statement Quarter: September 30, 2001

Total Estimated Cost  
 Funding from CALFED: \$176,000  
 Other Funding: none

Total Project Estimated Completion Date: April 30, 2002

	Quarterly Budget			Annual Budget		
	Budget	Accrued Expenditures	Variance	Budget	Accrued Expenditures	Remaining Balance
Task 1: <i>Sample collection</i> (42% complete)	17,490	17,490	0	41,644	17,490	24,154
Task 2: <i>Sample analysis</i> (42% complete)	17,846	17,846	0	42,492	17,846	24,646
Task 3: <i>Data analysis</i> (42% complete)	7,775	7,775	0	18,511	7,775	10,736
Task 4: <i>Installation of monitoring station</i> (10% complete)	18,967	1,879	17,088	18,967	1,879	17,088
Task 5: <i>Installation of samplers</i> (5% complete)	30,000	2,029	27,971	40,176	2,029	38,147
Task 6: <i>Reporting &amp; Meetings</i> (42% complete)	5,967	5,967	0	14,207	5,967	8,240
<b>Total:</b>	<b>98,045</b>	<b>52,986</b>	<b>45,059</b>	<b>175,997</b>	<b>52,986</b>	<b>123,011</b>