

**Bacterial Monitoring for the Buck Creek Watershed
FY 03 CWA 319(h)
TSSWCB Agreement No. 03-7**

Quarter no. 2 From 01/01/04 Through 03/31/04 .

I. Abstract

Project efforts within the second quarter primarily focused on preparation of sampling sites and laboratory. All sampling sites were identified and necessary field and laboratory equipment was purchased, tested, installed and calibrated. A technician at Vernon was hired and is in the process of learning proper sampling and analysis techniques. Administratively, TWRI worked on final revisions to the QAPP and are waiting on approval from EPA.

II. Overall Progress and Results by Task

TASK 1: Program Coordination with Project Participants

Subtask 1.1: Conduct meetings as appropriate with project participants, landowners, and other interested parties to discuss water quality monitoring activities, project schedule, lines of responsibility, communication needs, and other requirements. (month 1 thru 24)

The following actions have been completed during this reporting period:

- a. TAES personnel (John Sij, Jason Ott and Phyllis Dyer) met with Red River and Canadian River Authorities in Wichita Falls on March 30 to discuss quarterly project activities and future plan of work.

15% Complete

Subtask 1.2: TAES will prepare electronic quarterly reports. All progress reports will also be provided to TCE project cooperators and participants, and Hall-Childress, Collingsworth, and Donley SWCD directors. (month 1 thru 24)

The following actions have been completed during this reporting period:

- a. Submitted Year 1, quarter 2 report to TSSWCB on 4-15-04

15% Complete

Subtask 1.3: TCE will provide leadership for educational programs about water pollution and project findings. (month 1 thru 24)

The following actions have been completed during this reporting period:

- a. No progress to report at this time

0% Complete

Subtask 1.4: TAES and TCE will develop an electronic final report, which will include an executive summary of data collected during the project and educational program.

The following actions have been completed during this reporting period:

- a. No progress to report at this time.

0% Complete

Subtask 1.5: TSSWCB, TWRI, RRA and local SWCDs will assist, when needed, with composition, editing, and publication of final report (month 1 thru 24)

The following actions have been completed during this reporting period:

- a. No progress to report at this time.

0% Complete

TASK 2: Micro-Watershed Monitoring and Sampling

Subtask 2.1 Develop DQOs and a QAPP to be approved by USEPA. (month 1 thru 3)

The following actions have been completed during this reporting period:

- a. Electronic QAPP submitted on 3-9-04.
- b. Associated signature pages submitted on 3-26-04.
- c. Revised per TSSWCB edits and final QAPP submitted on 3-30-04.
- d. Electronic QAPP submitted to EPA on 4-14-04 with signature pages to follow.

75% Complete

Subtask 2.2: Select 12 or 13 sites to conduct water quality sampling. Maintain water quality monitoring equipment and collect water samples. (month 1 thru 24)

The following actions have been completed during this reporting period:

- a. 13 water quality sampling sites were identified and include the following locations:
 - 1) Buck Creek at CR 28 in Donley County
 - 2) Buck Creek at CR Z29 in Donley County
 - 3) Buck Creek at CR 40 in Collingsworth County
 - 4) Buck Creek at SHWY 1547 in Collingsworth County
 - 5) Unnamed tributary at SHWY 1056 in Collingsworth County
 - 6) Buck Creek at CR 110 in Collingsworth County
 - 7) Buck Creek at SHWY 339 in Collingsworth County
 - 8) Buck Creek at CR SA in Collingsworth County
 - 9) Howse Log Creek at CR SA in Collingsworth County
 - 10) Buck Creek at Scrivner Ranch in Collingsworth County
 - 11) Buck Creek at SHWY 83 in Childress County
 - 12) Buck Creek at SHWY 62 in Childress County
 - 13) Buck Creek at CR 19 in Childress County

100% Complete

Subtask 2.3 TAES will obtain sampling locations and deploy in accordance with arrangements made. (month 4 thru 21)

The following actions have been completed during this reporting period:

- a. Sampling technician (Mrs. Phyllis Dyer) hired at Vernon on 3-9-04.
- b. All sampling equipment was obtained and installed. Preliminary tests provided accurate results and equipment is in working order.
- c. All laboratory equipment was obtained and installed. Set up of on-site laboratory was completed on 3-26-04.
- d. Currently developing standard operating procedures for each piece of equipment.
- e. Established daily log procedure for equipment activity and calibration. Logs began 3-26-04.

100% Complete

Subtask 2.4 TAES will perform routine sampling, (grab sampling) at strategic locations within the Buck Creek watershed. (month 4 thru 21)

The following actions have been completed during this reporting period:

- a. Established supply list and procedures for each sampling event.
- b. Established field sampling log procedure to include all pertinent information (e.g. station id, time, date, water depth, weather, biological activity, unusual observations, etc)

5% Complete

Subtask 2.5: TAES will collect a minimum of 8 rain event/high flow grab samples from the sites over the course of the study. (month 4 thru 25)

The following actions have been completed during this reporting period:

- a. TAES has identified designee in each county near sampling sites to notify personnel of a high rainfall event (greater than 1") in the area. Notification will ensure high flow grab samples are obtained within 6 hours of rain event.

10% Complete

Subtask 2.6 TAES will compile and analyze the sampling data. Data will be for informational and assessment purposes due to the limited data previously collected. (month 4 thru 24)

The following actions have been completed during this reporting period:

- a. No progress to report at this time.

0% Complete

III. Related Issues/Current Problems and Favorable or Unusual Developments

No developments or problems to report at this time.

IV. Projected Work for Next Quarter

The following will be accomplished during the coming quarter:

- a. Expect QAPP approval from EPA by 5-15-04
- b. TWRI QA personnel will visit laboratory on 4-26-04 to train sampling technician and other TAES personnel on proper sampling and analysis techniques.
- c. Water sampling will begin on 5-3-04 and continue on routine basis.