

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

Quarter no. 13 From 10/01/06 Through 12/31/06.

I. Abstract

Work on the Phase I final report has continued. The first draft is nearing completion and will be sent to the TSSWCB, RRA, and local SWCDs for review upon its completion. Originally scheduled sample collection for Phase I has been completed and data have been analyzed. Sampling has been extended until the start of the Phase II project in an effort to eliminate data gaps between the two project phases. Results from sampling will be presented in the final report. As such, the final report will not be completed until sampling under Phase I has ceased and has been analyzed.

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.

The following actions have been completed during this reporting period:

- a. A meeting was held with the Hall-Childress SWCD on October 10, 2006 to discuss Buck Creek data and present them with a project fact sheet.
- b. Presented data to Donley County SWCD, no meeting was actually held due to inclement weather.

95% 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.

The following actions have been completed during this reporting period:

- a. Submitted Year 4, Quarter 1 report to TSSWCB on 1-12-07.

98% Complete

Subtask 1.3: TCE will provide leadership for educational programs about water pollution and project findings.

The following actions have been completed during this reporting period:

- a. TWRI maintains a project Web site which contains information about the project, the study area, photos, accomplishments, publications and educational outreach material, etc. The web site is updated quarterly or as needed and can be viewed at <http://twri.tamu.edu/buckcreek>

90% 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. Data compilation has continued to eliminate data gaps between Phase I and II. When the QAPP for Phase II has been approved, sampling under Phase I will cease.
- b. Work on the first draft of the Buck Creek Final report will be mostly complete within the next quarter. The main tasks remaining will be including data that will be collected up until the end of the project and completing the results and conclusions sections of the document.

60% Complete

Subtask 1.5: TSSWCB, TWRI, RRA and local SWCDs will assist, when needed, with composition, editing, and publication of final report.

The following actions have been completed during this reporting period:

- a. TWRI has been working closely with TAES Vernon personnel to draft the first version of the final report. TWRI will conduct one more round of edits and then the report will be sent to TSSWCB, RRA, and SWCD personnel for review.

40% Complete

TASK 2: Micro-Watershed Monitoring and Sampling

Subtask 2.1 Develop DQOs and a QAPP to be approved by USEPA.

The following actions have been completed during this reporting period:

- a. The annual update to the QAPP was approved on March 15, 2006.

- b. A new annual update is in the works and will allow for extended sampling until Phase II of the project begins.

100% Complete

Subtask 2.2: Select 12 or 13 sites to conduct water quality sampling. Maintain water quality monitoring equipment and collect water samples.

100% Complete

Subtask 2.3 TAES will obtain sampling locations and deploy in accordance with arrangements made.

100% Complete

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

The following actions have been completed during this reporting period:

- a. Sampling for the project has been extended and will be considered complete when the QAPP for Phase II of the project has been approved.

99% 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.

The following actions have been completed during this reporting period:

- a. Required rainfall event sampling has been completed.

100% 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.

The following actions have been completed during this reporting period:

- a. Data continue to be compiled and analyzed. This will continue until sampling is conducted under Phase II.
- b. The anticipated time that this will take place is around the beginning of May.

99% Complete

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

- Phyllis traveled to TAES El Paso to learn proper bacterial isolation techniques from Dr. George Di Giovanni for use in Phase II of the project.
- Phyllis met another landowner on the creek and received permission to access his property.
- An annual update to the QAPP is being conducted in order to facilitate extended sampling until it can be conducted under Phase II of the project.
- A six month no-cost extension has been requested to allow adequate time for the Phase II QAPP to be completed and approved.

IV. Projected Work for Next Quarter

The following will be accomplished during the coming quarter:

- Work will continue on the project final report. The report will not be completed until Phase II sampling begins. At that time, the report will be finalized and then sent out for review and approval.
- Water sampling will continue in order to eliminate data gaps between Phases I & II.

Appendix A: Site 11 *E. coli* data

<i>E. coli</i> data for Site 11 as collected during the last quarter		
<i>Date</i>	<i>E. coli</i> count 11A	<i>E. coli</i> count 11B
11/14/06	Dry – no sample	Dry – no sample
12/13/06	39	38
1/10/07	1	3