I. Abstract
All the remaining post-training 6 month evaluations were disseminated to participants and positive responses have come back. All TWON fact sheets layout are being finished. Project tasks are mostly complete with just the fact sheet publications, final quarterly and final report remaining.

II. Overall Progress and Results by Task

TASK 1: Project Administration

Subtask 1.1: TWRI will prepare electronic quarterly progress reports (QPRs) for submission to the TSSWCB. QPRs shall document all activities performed within a quarter and shall be submitted by the 15th of January, April, July and October. QPRs shall be distributed to all project partners.

The following actions have been completed during this reporting period:

a. TWRI submitted the 15th Quarter, Year 4 report to TSSWCB on July 11, 2014.

95% Complete

Subtask 1.2: TWRI will perform accounting functions for project funds and will submit appropriate Reimbursement Forms to TSSWCB at least quarterly.

The following actions have been completed during this reporting period:

a. As of July 8, 2014, $463,427 or 98% of federal project funds had been expended.
b. Of the remaining funds, $1,139 is encumbered, leaving $7,347.44 left to spend plus IDC. Plans are in place to expend the rest of these funds before the October 31, 2014 end date.

98% Complete

Subtask 1.3: TWRI will host coordination meetings, conference calls, or TTVN meetings, as appropriate, with project partners in order to efficiently and effectively achieve project goals, coordinate efforts and summarize activities and achievements made throughout the course of this project. TWRI will develop lists of action items needed following each project coordination meeting and distribute to project personnel.

The following actions have been completed during this reporting period:

a. A meeting between TWRI, TSSWCB and the project partners was held on June 11, 2014, to touch base on outstanding project deliverables and wrapping up the project. Action items are included in Appendix A. Meeting participants included: Diane Boellstorff (SCSC), Ryan Gerlich (BAEN), Drew Gholson (SCSC), Danielle Kalisek (TWRI) and Jana Lloyd (TSSWCB).

98% Complete
Subtask 1.4: **TWRI and SCSC will attend and participate in the Texas Groundwater Protection Committee and subcommittee meetings, Texas Alliance of Groundwater Districts conferences, and other meetings as appropriate in order to communicate project goals, activities and achievements accomplishments to affected parties.**

The following actions have been completed during this reporting period:

a. This task is considered complete. No activity to report.

**100% Complete**

Subtask 1.5: **TWRI in collaboration with SCSC, will create (Months 1-3), host and maintain (Months 4-36) a website to serve as a clearinghouse for TWON information and resources including updated and renamed, web-adapted Tex*A*Syst educational materials and online delivery of TWON.**

The following actions have been completed during this reporting period:

a. The Texas Well Owner Network website went online on June 10, 2011, and continues to be maintained and updated. It can be found at [http://twon.tamu.edu/](http://twon.tamu.edu/). Since the website went online, it has been viewed by a total of 12,398 visits by 8,641 unique visitors. This quarter there were 1,883 visits made by 1,446 unique visitors this quarter.

b. The website continues to be maintained and updated with training dates and locations.

**98% Complete**

Subtask 1.6: **TWRI and SCSC will develop a project final report.**

The following actions have been completed during this reporting period:

a. TWRI and SCSC begin preliminary discussions about drafting the final report. TWRI will begin compiling report information.

**10% Complete**

**TASK 2: Development of TWON Educational Materials/Curriculum**

Subtask 2.1: **SCSC will employ a TWON Coordinator to develop and deliver the TWON curriculum in selected watersheds.**

The following actions have been completed during this reporting period:

a. This task is complete. Drew Gholson was hired on September 17, 2012.

**100% Complete**

Subtask 2.2: **Update and rename existing TEX*A*Syst documents to reflect changes/improvements in laws and regulations and private well management, maintenance and protection. Revisions will be developed by the TWON Coordinator, with significant assistance from Project Co-Leads and the BAEN Program Specialist. Existing publications include:**

- Improving Wellhead Management and Conditions
- Improving Pesticide Storage and Handling
- Improving Fertilizer Storage and Handling
- Improving Petroleum Product Storage
- Improving Hazardous Waste Management
- Improving Household Wastewater Treatment
- Improving Livestock Manure Storage and Treatment Facilities
- **Improving Livestock Holding Pen Management**

All documents, educational materials, etc. will be provided to the TSSWCB for review and comment prior to dissemination.

The following actions have been completed during this reporting period:

a. SCSC is working with Texas A&M AgriLife Communications on the fact sheets; they have been edited and approved and are currently in layout.

90% Complete

**Subtask 2.3: Develop and adapt additional educational resources to create a TWON curriculum. Resources will be developed by the TWON Coordinator, with significant assistance from Project Co-Leads and the BAEN Program Specialist. Specific components or modules of the curriculum may include:**

- Watershed and groundwater hydrology and the importance to neighbors and the public of safeguarding aquifer integrity and groundwater quality
- Proper siting of drinking water wells and avoiding improper well construction techniques
- Proper maintenance and protection of the wellhead
- Solid and hazardous household waste management
- Aging and failure of well construction materials
- Locating and properly plugging abandoned wells
- Improperly sited and functioning on-site wastewater treatment systems
- Maintenance, aging and failure of on-site wastewater treatment systems
- Effects of land use changes on well water quality
- Successful methods of sharing TWON information with neighbors and community.

**TWON curriculum will include a handbook for participants, standardized presentations for program delivery and availability of program materials online.**

All documents, educational materials, etc. will be provided to the TSSWCB for review and comment prior to dissemination.

The following actions have been completed during this reporting period:

a. The TWON Handbook has been published. This task is now complete.

100% Complete

**TASK 3: Deliver updated and renamed TEX*A*Syst Publications, Well Water Screenings, and TWON trainings**

**Subtask 3.1: SCSC will develop a preliminary list of watersheds where the Well Water Screenings and TWON trainings will be delivered. SCSC will work with the TSSWCB and other state and local organizations to select locations for these training events. SCSC will coordinate efforts with state agencies and organizations already involved in WPP/TMDL processes or who are planning future WPP/TMDL processes in specific watersheds.**

The following actions have been completed during this reporting period:

a. All well water screenings (1 hour) and TWON trainings (6 hour) have been held. This task is complete.

100% Complete
Subtask 3.2: SCSC with assistance from TWRI will develop and disseminate informational materials in order to actively market well water screenings and TWON trainings including news releases, internet postings, newsletter announcements, public/conference presentations, flyers, etc. As appropriate TWRI will include information on the project in the txH2O, Conservation Matters e-letter, and AgriLife news. All announcements, letters, and publications will be provided to the TSSWCB for review and comment prior to dissemination.

The following actions have been completed during this reporting period:

a. Two articles were written highlighting the TWON project. One was an overview of the trainings to be published in The Cattleman magazine in May 2014. The other was an article on protecting groundwater resources using information from fact sheets and materials located on the TWON website to be published in the spring issue of txH2O magazine.

100% Complete

Subtask 3.3: Deliver 6-hour TWON trainings in selected watersheds, with the minimum goal being 6 trainings in year 2, and 8 trainings in year 3 to increase local understanding of the factors which can adversely impact well water quality and provide access to the knowledge and tools which can be employed to prevent and/or resolve them. Trainings will be delivered by the TWON Coordinator, and a combination of the BAEN and SCSC Program Specialists and the SCSC Assistant Professor and Extension Specialist.

The following actions have been completed during this reporting period:

a. All trainings were held. This subtask is complete.

100% Complete

Subtask 3.4: Deliver well screening events to provide well-head protection information and recommendations for remediating well contamination, if appropriate. Screenings will be delivered by the SCSC Assistant Professor and Extension Specialist, TWON Coordinator and/or the SCSC Program Specialist as appropriate. A minimum of 30 well screening events will be delivered throughout the course of the project. Well screening event educational programming will include an overview of the topics discussed in more detail during comprehensive TWON trainings. Well screening events will be conducted in conjunction with TWON trainings as well as other Texas AgriLife Extension programs.

The following actions have been completed during this reporting period:

a. A total of 40 of the 30 required well screenings have been held. This subtask is complete.

100% Complete

**TASK 4: Evaluate the effectiveness of the TWON trainings**

Subtask 4.1: SCSC will develop and deliver pre-test/post-test evaluation strategy to evaluate increased knowledge by individuals participating in the TWON trainings regarding program principles, appropriate BMPs, and other activities; to address proper private well management, to evaluate participant satisfaction with the program; and to evaluate participant’s intentions to change their behavior as a result of the TWON training.

The following actions have been completed during this reporting period:

a. Survey was developed and distributed at all the trainings.

100% Complete
Subtask 4.2: **SCSC will develop and deliver 6 month follow-up survey via online techniques to assess behavior changes adopted and other activities (such as number of neighbors contacted) by TWON training participants.**

The following actions have been completed during this reporting period:

a. The 6 month follow-up surveys have been sent to participants of all 14 trainings to evaluate actual changes being made since the 6-hour training.
b. This task is now complete.

100% Complete

Subtask 4.3: **SCSC will analyze results obtained from the pre-test/post-test and 6 month follow-up evaluations using descriptive, correlational, and analysis of variances statistical procedures.**

The following actions have been completed during this reporting period:

a. Six-month follow-up surveys were sent out to the participants from the following trainings: Seguin, Boerne, Wellington, Lubbock, Haskell, Lockhart, Junction, Killeen, Wimberley, Weatherford, Pleasanton, Fort Stockton, San Angelo, and Uvalde.
b. All pre-test/post-test and 6 month follow-up evaluations have been completed. This task is now complete.

100% Complete

Subtask 4.4: **SCSC will modify educational program and materials as appropriate.**

The following actions have been completed during this reporting period:

a. Slight modifications were made throughout the training schedule. Trainings and this task are complete.

100% Complete

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

- No activity to report this quarter.

IV. Projected Work for Next Quarter

- TWON fact sheets will continue to be completed and published as AgriLife Communications can get them out.
- TWRI will schedule the final quarterly meeting with program leaders and TSSWCB.
- Work will continue on the TWON final report. A draft final report will be submitted to TSSWCB by October 1.
- TWRI will facilitate completion and submission of the TWON quarterly report for next quarter.
APPENDIX A

QUARTERLY COORDINATION MEETING — NOTES
Preventing Water Quality Contamination Through the Texas Well Owners Network
June 11, 2014 @ 2:00pm

Attendees – Diane Boellstorff, Ryan Gerlich, Drew Gholson, Jana Lloyd, Danielle Kalisek

Goals
- Discuss outstanding deliverables, get updates for the QPR, update checklist for wrapping up the project

Action Items
Outstanding deliverables
- Quarterly Progress Reports for July and October 2014
- Reimbursement Forms and necessary documentation
- Action items from project coordination meetings
- Number of unique visitors to TWON website
- Finalizing the fact sheet publications
  - All fact sheets are at AgriLife Communications in design.
- Put TWON presentations online
- Follow-up 6-month survey assessment for TWON trainings
- Results from evaluation approach
- Final Report summarizing the results of the project – Draft by October 1
- Examine accounts for final budget revision