

**HIGH STRENGTH WASTE EDUCATIONAL PROGRAM FOR
DESIGNATED REPRESENTATIVES (DRs)
FY2010**

FINAL REPORT

**SUBMITTED BY
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**PREPARED IN COOPERATION WITH THE
TEXAS ON-SITE WASTEWATER TREATMENT RESEARCH COUNCIL**

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Research Council*

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**High Strength Waste Educational Program for Designated Representatives (DRs)
FY 2010**

Table of Contents

	Page
Background.....	3
Project Overview	3
Project Implementation.....	3
Course Evaluation.....	4
Summary.....	8
Appendix A: Brochure announcing training courses.....	9
Appendix B: Mailing labels for designated representatives	12
TCEQ Region 01 - Amarillo.....	13
TCEQ Region 02 - Lubbock.....	14
TCEQ Region 03 - Abilene.....	15
TCEQ Region 04 - DFW Metroplex.....	17
TCEQ Region 05 - Tyler.....	24
TCEQ Region 06 - El Paso	27
TCEQ Region 07 - Midland.....	28
TCEQ Region 08 - San Angelo	29
TCEQ Region 09 - Waco.....	30
TCEQ Region 10 - Beaumont.....	33
TCEQ Region 11 - Austin.....	35
TCEQ Region 12 - Houston.....	39
TCEQ Region 13 - San Antonio	44
TCEQ Region 14 - Corpus Christi.....	47
TCEQ Region 15 - Harlingen	49
TCEQ Region 16 - Laredo.....	50
Appendix C: Sign-in sheets for training events	51
Appendix D: Evaluation form for assessing training events	69
Appendix E: AWTS course evaluation- February 9 & 10, 2010. Lubbock, TX	74
Appendix F: AWTS course evaluation- March 1 & 2, 2010. San Marcos, TX.....	79
Appendix G: AWTS course evaluation- March 30 & 31, 2010. Granbury, TX.....	85
Appendix H: AWTS course evaluation- April 20 & 21, 2010. Bandera, TX.....	91
Appendix I: AWTS course evaluation- April 29 & 30, 2010. Midland, TX	97
Appendix J: AWTS course evaluation- May 24 & 25, 2010. Conroe, TX.....	103
Appendix K: AWTS course evaluation- June 17 & 18, 2010. Kaufman, TX	109

High Strength Waste Educational Program for Designated Representatives

Background

On-site sewage facilities (OSSFs) provide the wastewater infrastructure for a variety of facilities. Based on the activities within these facilities, the waste stream can be characterized as high strength wastewater. The designer of the wastewater treatment system should review the management practices that will be conducted within the facility and estimate the waste stream characteristics. The designer should develop a treatment train to accept the wastewater from the facility and remove the contaminants.

A Designated Representative reviews the permit application for an OSSF. In the permitting process, a designer submits a wastewater treatment system design to the authorized agent responsible for permitting OSSFs. A designated representative will review the permit application and associated design. The designated representative will accept or reject the permit application based upon compliance with State and local guidance. A training course describing high strength wastewater and facility management practices that can generate high strength wastewater would increase decision making capacity with respect to reviewing permit applications.

Project Overview

The high strength waste educational program for designated representatives consisted of delivering the OWTS 401 Analyzing Wastewater Treatment Systems for High Strength and Hydraulic Loading short course in at least five locations across the State of Texas. The registration fee associated with the course for designated representatives currently employed by an authorized agent was charged against this project.

Other practitioners in the OSSF industry also attended the courses. These practitioners gained knowledge on the implementation of treatment trains capable of managing high strength wastewater. The attendance by other practitioners facilitates a greater awareness of the concerns by all parties involved in implementing OSSFs to address high strength wastewater.

Project Implementation

The OWTS 401 Analyzing Wastewater Treatment System course is a TCEQ approved course under the RG-373 requirements and covers the topic of high strength wastewater. This course was taught in seven locations during the spring and summer of 2010. A course schedule was developed and advertised describing the training locations (Appendix A). A course schedule was mailed during January and May 2010 to Designated Representatives in Texas (Appendix B). The course participants contacted the TAMU Conference Services group to register for the course. Each course participant was required to provide their name, license number, authorized agent as their employer, and signature on a sign-in sheet. Sign-in sheets were collected for each course (Appendix C). Participant certificates and submission of CEU documentation to the STEERS system was accomplished within 14 days of course completion.

The OWTS 401 training course is an intensive training on identifying wastewater characteristics with respect to facility type and assembling wastewater treatment trains capable of accepting and treating the wastewater. The course consists of sixteen hours of classroom instruction using slide presentations and demonstration aids. A homework assignment was

distributed at the conclusion of the first day to reinforce specific learning objectives. The homework was discussed at the beginning of the second day of instruction.

Course Evaluation

An evaluation document was developed for collecting information about the participants and assessing the impact of the course (Appendix D). Assessment and evaluation can measure the overall quality of courses. Evaluation surveys also provide valuable information regarding additional training needs. Both of these goals were achieved through the use of an evaluation survey completed by the audience at the conclusion of the class.

AWTS Workshop in Lubbock, February 9&10, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the USDA-ARS Cotton Ginning Laboratory on February 9 & 10, 2010. An evaluation survey was used to gain feedback on the course. Five designated representatives participated in the training event.

Overall the evaluation results were extremely positive regarding the training program (Appendix E). The number of people indicating a gain in knowledge for the key topics ranged from 80 to 100%. Additionally, 100% of the participants indicated a willingness to adopt the practice of specifying evaluating commercial operational practices and specifying organic loading rates for treatment train components.

AWTS Workshop in San Marcos, March 1&2, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the Hays County Extension Office on March 1 & 2, 2010. An evaluation survey was used to gain feedback on the course. Forty designated representatives participated in the training event.

The evaluation results are presented in Appendix F. The number of people indicating a gain in knowledge for the key topics ranged from 71 to 92%. Additionally, 56% of the participants indicated a willingness to adopt the practice of specifying evaluating commercial operational practices.

AWTS Workshop in Granbury, March 30&31, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the Hood County Extension Office on March 30 & 31, 2010. An evaluation survey was used to gain feedback on the course. Twenty designated representatives participated in the training event.

The evaluation results are presented in Appendix G. The number of people indicating a gain in knowledge for the key topics ranged from 74 to 100%. Additionally, 53% of the participants indicated a willingness to adopt the practice of specifying operation and maintenance requirements for system components in the design and 59% indicated willingness to adopt the practices of specifying hydraulic loading rates for treatment train components and utilizing flow equalization in systems with peak flows.

AWTS Workshop in Bandera, April 20&21, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the Flying L Ranch on April 20 & 21, 2010. An evaluation survey was used to gain feedback on the course. Twenty-three designated representatives participated in the training event.

The evaluation results are presented in Appendix H. The number of people indicating a gain in knowledge for the key topics ranged from 81 to 95%. Additionally, 67% of the participants indicated a willingness to adopt the practice of utilizing evaluation forms to review residential systems.

AWTS Workshop in Midland, April 29&30, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the City of Midland Martin Luther King Jr. Community Center on April 29 & 30, 2010. An evaluation survey was used to gain feedback on the course. Twelve designated representatives participated in the training event.

The evaluation results are presented in Appendix I. The number of people indicating a gain in knowledge for the key topics ranged from 90 to 100%. Additionally, 70% of the participants indicated a willingness to adopt the practice of specifying evaluating commercial operational practices and specifying organic and hydraulic loading rates for treatment train components.

AWTS Workshop in Conroe, May 24&25, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the Montgomery County Extension Office on May 24 & 25, 2010. An evaluation survey was used to gain feedback on the course. Twenty designated representatives participated in the training event.

The evaluation results are presented in Appendix J. The number of people indicating a gain in knowledge for the key topics ranged from 70 to 89%. Additionally, 83% of the participants indicated a willingness to adopt the practice of specifying evaluating commercial operational practices and 76% indicated willingness to utilize evaluation forms to review residential systems.

AWTS Workshop in Kaufman, June 17&18, 2010

A workshop targeting Designated Representatives providing information on analyzing wastewater treatment systems was conducted at the Kaufman County Library on June 17 & 18, 2010. An evaluation survey was used to gain feedback on the course. Three designated representatives participated in the training event.

The evaluation results are presented in Appendix K. The number of people indicating a gain in knowledge for the key topics ranged from 67 to 100%. Additionally, 100% of the participants indicated a willingness to adopt the practice of specifying evaluating commercial

operational practices and specifying operational and maintenance requirements for system components in the design.

Cumulative Evaluation Results

The seven workshops were conducted in geographically diverse areas of Texas. A total of 123 designated representatives participated in the training events. The evaluation surveys documented the views of the participants. Ninety-eight percent of the respondents indicated that they gained information through participation in the course (Yes = 114, No = 2, No response = 7). Additionally, 100% of respondents indicated that they would recommend the course to other wastewater professionals (Yes = 119, No = 0, No response = 4). These responses indicate an overall acceptance of the course as being a value to the participants.

The retrospective-pre-then-post evaluation survey provided a means to assess the areas where knowledge was gained through participation in the course. A total of 123 people participated in the training events. 97% (119 of 123) of the participants completed at least a portion of the evaluation survey. The least response rate for an individual question on the survey was 83% (102 of 123). The number of respondents to a specific question is indicated by the “N” value in the respective table. The number of respondents indicating knowledge gained on a specific topic ranged from 78 to 94% (Table 1).

Table 1. Percent of participants indicating knowledge gained on specific topics (123 total participants in the program).

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	91	115	79.13
Hydraulic loading to commercial wastewater treatment systems	105	117	89.74
Organic loading to commercial wastewater treatment systems	109	116	93.97
Organic loading rate to soil treatment areas	101	116	87.07
How to evaluate treatment train components to predict effluent quality	103	115	89.57
How residential management practices impact organic loading	91	116	78.45
How microscopic analysis assists in evaluating healthy microbial treatment conditions	96	116	82.76
How to incorporate flow equalization into treatment trains	103	117	88.03
How to analyze commercial wastewater treatment systems	107	117	91.45
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	106	115	92.17
Sampling practices for monitoring wastewater treatment systems	100	116	86.21

The topic indicating the greatest number of participants indicating knowledge gained was “organic loading to commercial wastewater treatment systems”. The topic with the least number of participants indicating knowledge gained was “how residential management practices impact organic loading” (Table 2). The retrospective-pre-then-post evaluation method also allows participants to indicate the knowledge gained with respect to a specific topic. The relative percent knowledge gained for the topics ranged from 42 to 73%. The topic with the least knowledge gained was “wastewater constituents” while the topic with the greatest knowledge gained was “how to analyze commercial wastewater treatment systems”. It should be expected that the least knowledge gained would be related to the “wastewater constituents” topic because these individuals have attended certification courses describing this topic.

Table 2. Calculated percent knowledge gained using a retrospective pre-then-post survey instrument.

Percent Knowledge Gained:	% Knowledge Gain
Wastewater constituents	41.5
Hydraulic loading to commercial wastewater treatment systems	57.4
Organic loading to commercial wastewater treatment systems	69.3
Organic loading rate to soil treatment areas	55.9
How to evaluate treatment train components to predict effluent quality	65.4
How residential management practices impact organic loading	48.3
How microscopic analysis assists in evaluating healthy microbial treatment conditions	65.4
How to incorporate flow equalization into treatment trains	56.3
How to analyze commercial wastewater treatment systems	73.3
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	69.6
Sampling practices for monitoring wastewater treatment systems	64.1

Many of the designated representatives attending the course indicated a willingness to adopt the practices discussed during the course (Table 3). Because many of these practices require a modification of standard operating procedures for a given authorized agent, some participants may be reluctant to indicate a willingness to adopt the practices. However, only a few participants indicated that they would not adopt the practices. It was also encouraging to determine that the number of participants indicating they had already adopted the use of the management practices discussed in the course ranged from 6 to 18. Overall, the majority of the participants indicated a willingness to adopt or had already adopted the management practices discussed in the course.

Table 3. Assessment of willingness to adopt practices as a result of participation in the course (a total of 123 participants in the training events).

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will <u>not</u> adopt	Undecided	Probably <u>will</u> adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	3	28	67	6	0	104
Utilize evaluation forms to evaluate commercial systems	2	29	66	5	0	102
Specify hydraulic loading rate for system components in the design	2	35	48	17	0	102
Specify organic loading rate for system components in the design	2	35	49	17	0	103
Specify operation and maintenance requirements for system components in the design	2	33	50	18	0	103
Utilize flow equalization in systems with peak flows	1	37	52	15	0	105

Summary

Seven training courses were offered to practitioners in the OSSF industry at geographically diverse locations across the State. The registration fee for 120 designated representatives currently employed by an authorized agent was covered through this grant. The designated representatives received continuing education credits for participation in the training events. A listing of the designated representatives and their authorized agent was included in appendix C of this final report.

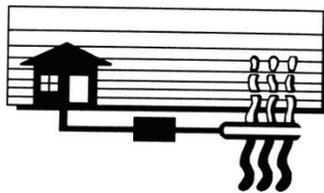
Most respondents indicated satisfaction and knowledge gained through participation in the course. 100% of respondents indicated a willingness to recommend the course to other wastewater practitioners. 98% of respondents indicated knowledge gained through participation in the course. The number of respondents indicating knowledge gained on a specific topic ranged from 78 to 94%. The number of people indicating a willingness to adopt a specific practice range from 48 to 67.

Appendix A: Sharing information about the training courses

A training brochure was developed and distributed to potential participants in the courses (figure A-1 and A-2). The brochure described the available courses and training locations. A new brochure was developed and distributed without the information describing the registration fees being covered by the Texas Onsite Wastewater Treatment Research Council once the free spaces were reserved by Designated Representatives.

The training dates and a course brochure were shared through the ossf.tamu.edu web site. The web site was updated during the project by removing the historical training events.

Figure A-1. First page of tri-fold brochure advertising short courses.



On-Site Wastewater Educational Program:

These educational courses are being provided to increase participants knowledge concerning approaches for managing domestic wastewater.

This course is approved for sixteen hours of On-Site Wastewater (OSSF) Continuing Education Credit by the Texas Commission on Environmental Quality. (Required for Installer I and II, Site Evaluators, Maintenance Providers and Designated Representatives.)

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E-mail: b-lesikar@tamu.edu

Educational programs of the Texas AgriLife Extension Service are open to all people without regard to race, color, sex, disability, religion, age or national origin.

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The Texas A&M University System
2117 TAMU
College Station, Texas 77843 - 2117

Analyzing Wastewater Treatment Systems 2010 Schedule

★ ★ ★ ★ ★ ★ ★ ★

FREE!!

TOWTRC Grant pays for first 120 DR's employed by an AA!

★ ★ ★ ★ ★ ★ ★ ★

2010 Class Schedule

February 9-10, 2010, Lubbock
March 1-2, 2010, San Marcos
March 30-31, 2010, Granbury
April 20-21, 2010, Bandera
April 29-30, 2010, Midland
May 24-25, 2010, Conroe
June 17-18, 2010, Kaufman

 **AgriLIFE EXTENSION**
Texas A&M System

Figure A-2. Second page of tri-fold brochure advertising short courses.

Analyzing Wastewater Treatment Systems

Interested in learning about managing OSSFs serving facilities with a potential for high strength wastewater? This course describes how to analyze facility management practices for estimating wastewater characteristics. Facility management practices are discussed relative to their impact on wastewater strength and flow. Wastewater treatment train configurations and components are described for managing high strength wastewater. Developing a treatment train with components capable of providing optimum growing conditions for microbial populations is necessary for producing effluent meeting regulatory, environmental and client specifications.

The fee for Designated Representatives currently employed by an Authorized Agent is being paid through a grant by the Texas Onsite Wastewater Treatment Research Council (TOWTRC). DRs must list the Authorized Agent to be eligible for having their registration paid by the TOWTRC.

Cost: \$325 (\$0 for Designated Representative currently employed by an authorized agent.)

Teaching Methodology: This course is designed for classroom instruction, it will consist of a lecture with demonstration aids.

Purpose: Present information on evaluation of facilities with a potential for high strength wastewater. Describe analysis forms for estimating wastewater characteristics.

Audience: Wastewater practitioners interested in effective management of wastewater.

Dates and Locations

February 9-10, 2010, Lubbock Texas
 USDA-ARS
 1604 E. FM 1294
 Lubbock, Texas 79403
 806/746-5353

March 1-2, 2010, San Marcos, Texas
 Hays County Extension Office
 1253 Civic Center Loop
 San Marcos, Texas 78666
 512/393-2120

March 30-31, 2010, Granbury, Texas
 Hood County Extension Office
 200 N Gordon, Courthouse Annex, Rm 22,
 Granbury, Texas 76048
 817-/579-3280

April 20-21, 2010, Bandera, Texas
 Flying L Ranch
 566 Flying L Drive
 Bandera, Texas 78003
 830/460-3001; 800/292-5134

April 29-30, 2010, Midland, Texas
 City of Midland Martin Luther King Jr
 Community Center
 2300 Butternut Lane
 Midland, Texas 79702
 432/685-7376

May 24-25, 2010, Conroe, Texas
 Montgomery County Extension Office
 9020 FM 1484
 Conroe, Texas 77303-4334
 936/539-7824

June 17-18, 2010, Kaufman, Texas
 Kaufman County Library
 3790 S. Houston St, Kaufman, Texas 75142
 972/932-6222

Registration Form

Name(s): _____
 Organization: _____
 Authorized Agent: _____
 Address: _____
 City/State/Zip: _____
 Telephone: _____
 E-mail address: _____

Each course has 16 CEU hours for OSSF. Course fee is \$325.00 per person. Please place a check (✓) in the box beside desired location.

- Feb 9-10, Lubbock April 29-30, Midland
 Mar 1-2, San Marcos May 24-25, Conroe
 Mar 30-31, Granbury Jun 17-18, Kaufman
 Apr 20-21, Bandera

Type of Payment:

- _____ Check _____ American Express
 _____ VISA _____ Money Order
 _____ Master Card _____ Discover

Credit Card #: _____

Expiration Date: _____

Total Amount(s): _____

Signature: _____

(Required for processing)

Make checks payable to: On-Site Wastewater

Mail payments and registration form to:

Kay Sanders, Conference Services
 1232 TAMU
 College Station, TX 77843-1232
 Phone: 979/845-7694

Fax credit card registration to: 979/845-2519

Figure A-3. Listing of courses on the ossf.tamu.edu web site



Home Educational Materials Training Centers Short Courses Terminology Manufacturers NSF Approved Products Links Contact

Short Courses

Onsite Wastewater Treatment Systems

Wastewater Source (Homeowners)

Collection & Storage

Pretreatment Components

Advanced Pretreatment Components

Disinfection

Final Treatment & Dispersal

Abandoned Wells

Groundwater

Operation & Maintenance

Selecting & Permitting

Analyzing Wastewater Treatment Systems
Course #436 - 16 CEU hours
 Lubbock, Texas
 February 9 - 10, 2010
[Brochure and Registration](#) 

San Marcos, Texas
 March 1 - 2, 2010
[Brochure and Registration](#) 

Granbury, Texas
 March 30 - 31, 2010
[Brochure and Registration](#) 

Bandera, Texas
 April 20 - 21, 2010
[Brochure and Registration](#) 

Midland, Texas
 April 29 - 30, 2010
[Brochure and Registration](#) 

Conroe, Texas
 May 24 - 25, 2010
[Brochure and Registration](#) 

Temple, Texas
 May 27 - 28, 2010
[Brochure and Registration](#) 

Kaufman, Texas
 June 17 - 18, 2010
[Brochure and Registration](#) 

Find a licensed installer through the Texas Commission on Environmental Quality.

Order publications through the Texas AgriLife Extension Service Bookstore.

Appendix B: Mailing Labels for Designated Representatives

The training brochure was distributed to the Designated Representatives in Texas. A mailing list was developed using the Texas Commission on Environmental Quality (TCEQ) web site page titled "TCEQ Search Licensing or Registration Information" - http://www5.tceq.state.tx.us/lic_dpa/. The web site was searched using the "Group Search Criteria" and the following choices:

Program: ON SITE SEWAGE FACILITY LICENSING (OSSFOL)

Type and Level: OSSF DESIGNATED REPRESENTATIVE; INSTALLER I; OR
INSTALLER II

Region: Each region was selected individually. The contact information was cut and pasted into a WordPerfect file to create labels for a mailing list:

- TCEQ Region 01 - Amarillo
- TCEQ Region 02 - Lubbock
- TCEQ Region 03 - Abilene
- TCEQ Region 04 - DFW Metroplex
- TCEQ Region 05 - Tyler
- TCEQ Region 06 - El Paso
- TCEQ Region 07 - Midland
- TCEQ Region 08 - San Angelo
- TCEQ Region 09 - Waco
- TCEQ Region 10 - Beaumont
- TCEQ Region 11 - Austin
- TCEQ Region 12 - Houston
- TCEQ Region 13 - San Antonio
- TCEQ Region 14 - Corpus Christi
- TCEQ Region 15 - Harlingen
- TCEQ Region 16 - Laredo

The information retrieved from the TCEQ database is presented by TCEQ Region. Mailing labels were printed using this information. The mailing labels were attached to the brochure and mailed between January 25 and 29, 2010.

Texas Commission on Environmental Quality Region 1 - Amarillo

BROWN, TERRY L
6 BRAMBLEWOOD LN
CANYON TX 79015-2108

CARPENTER, ALTON LEO
312 N BRYAN ST
BORGER TX 79007-4048

DUKE, DERE E RS
PO BOX 1971
AMARILLO TX 79105-1971

FIELD, DAVID DALE
414 DENVER AVE STE 301
DALHART TX 79022-2744

GATES, JOHN W RS
PO BOX 1971
AMARILLO TX 79105-1971

GORDON, RONNIE JOE
PO BOX G
CHANNING TX 79018-0069

WALSH, CHARLES R
PO BOX 1971
AMARILLO TX 79105-1971

WATSON, FAYLON WAYNE
PO BOX 1045
CLARENDON TX 79226-1045

YODER, JAMES A
1818 PEACH AVE
DALHART TX 79022-5030

Texas Commission on Environmental Quality Region 2 - Lubbock

FLORES, EVA
2833 64TH ST
LUBBOCK TX 79413-5829

HARGROVE, JOE KENNETH
632 S GRAIN ST
CROSBYTON TX 79322-3008

LYON, GARY W
3150 S HIGHWAY 385
LEVELLAND TX 79336-9306

RICH, MARK ALLEN RS
10019 WOODROW RD
ROPESVILLE TX 79358-1531

SISTRUNK, MARVIN DALE
111 W 6TH ST
PLAINVIEW TX 79072-8003

THOMS, DONNIE CLARK
107 CAPITOL AVE
LEVELLAND TX 79336-2101

YARBRO, DANIEL ALDON
412 E 15TH ST
POST TX 79356-2716

Texas Commission on Environmental Quality Region 3 - Abilene

ADAMS, EDWARD
1700 3RD ST
WICHITA FALLS TX 76301-2113

CONE, AMY K
1700 3RD ST
WICHITA FALLS TX 76301-2113

ALEXANDER, ROBERT
2105 RAWHIDE TRL
HENRIETTA TX 76365-2509

DODSON, JIM C
1410 THOMAS LN
GRAHAM TX 76450-4710

BABINEAUX, PATRICK S
105 VAUGHN ST
BURKBURNETT TX 76354-1841

FENOGLIO, EDWARD ARNOLD
146 ALAMO RD
MONTAGUE TX 76251-1118

BAILEY, RICHARD GLENN
PO BOX 60
ABILENE TX 79604-0060

FRANKLIN, WANDA L
1700 3RD ST
WICHITA FALLS TX 76301-2113

BALLEW, THOMAS E
1701 COUNTRY CLUB RD
BOWIE TX 76230-9094

GARCIA, JAMES J
716 W 3RD ST
BURKBURNETT TX 76354-1800

BARNUM, DONNIE M
6350 COUNTY ROAD 234
BROWNWOOD TX 76801-1127

GLENN, SUZANNE M
4001 CHRIS DR
ABILENE TX 79606-5537

BARNUM, KIMBERLY K
6350 COUNTY ROAD 234
BROWNWOOD TX 76801-1127

HUFF, DONALD GAIL RS
1725 WESTWOOD DR
ABILENE TX 79603-4255

BECK, RICHARD LEWIS
1400 WATER DISTRICT ROAD 214
BRECKENRIDGE TX 76424-8797

JACKSON, BRICE
600 NEW YORK RD
HENRIETTA TX 76365-7044

BIGGS, CODY J
405 RIDGE RD
BRECKENRIDGE TX 76424-1923

JACKSON, ZACKERY T
110 W ELLIOTT ST
BRECKENRIDGE TX 76424-4433

BURNS, DON M
508 THELMA AVE
BAIRD TX 79504-4334

JONES, CRAIG D
850 AVENUE F
ABILENE TX 79601-4621

JONES, DENA A
11288 COUNTY ROAD 356
ANSON TX 79501-5732

THOMPSON, RITA KAYE
200 S BROADWAY ST STE 322
BROWNWOOD TX 76801-3136

KUEHLER, DAVID W
5488 COUNTY ROAD 6001
MUNDAY TX 76371-3050

TOWNSEND, GENE W
234 COUNTY ROAD 306
MERKEL TX 79536-7432

MARRICLE, BENNIE WAYNE
911 26TH ST
SNYDER TX 79549-2801

WILLIAMS, JARVIS L
6000 KEMP BLVD
WICHITA FALLS TX 76308-5426

MCCLURE, MICHAEL S
7 NW 31ST ST
LAWTON OK 73505-6105

YOUNG, GEORGE RONALD
PO BOX 564
HAWLEY TX 79525-0564

MOORE, RITA S
200 S BROADWAY ST STE 322
BROWNWOOD TX 76801-3136

MORRIS, SUSAN B RS
1700 3RD ST
WICHITA FALLS TX 76301-2113

ODOM, STEPHEN PAYNE
1309 SUNSET DR
BAIRD TX 79504-2505

PEEL, MICHAEL RAY RS
3609 SANTA MONICA DR
ABILENE TX 79605-6636

SLIGER, KEVIN WALTER
PO BOX 735
COMANCHE TX 76442-0735

SWEIVEN, DAVID C
602 DEPOT ST
JACKSBORO TX 76458-2614

THEDFORD, GUY M
102 PEARL ST
GUSTINE TX 76455-2330

Texas Commission on Environmental Quality Region 4 - DFW Metroplex

ADAMIE, SCOTT ANTHONY RS
225 MUIR HILL DR
ALEDO TX 76008-2584

BLOODSWORTH, MARY M
1203 E SAM RAYBURN DR
BONHAM TX 75418-4945

ADAMS, JAMES D
3417 CORNELIA ST
GREENVILLE TX 75401-5134

BLYTHE, RAY LYNN
7087 FM 2101
QUINLAN TX 75474-4434

AGUIRRE, GABRIEL R
2121 CROSS TIMBERS RD
FLOWER MOUND TX 75028

BROWN, MISTY LYNN
1308 W LAMAR ST
MCKINNEY TX 75069-3638

APPLE, TANYA C RS
3716 MONTGOMERY DR
GRANBURY TX 76049-5072

BURRIS, JIMMIE DEAN
909 DOVER DR
GAINESVILLE TX 76240-5915

ARMSTRONG, JUDY K
1201 N HIGHWAY 77 STE 100
WAXAHACHIE TX 75165-7828

BUSCH, MICHAEL W
PO BOX 630
GLEN ROSE TX 76043-0630

BAILEY, THOMAS DEAN RS
333 SALT BRANCH RD
LITTLE ELM TX 75068-4646

CAMERON, WILLIAM A
PO BOX 161665
FORT WORTH TX 76161-1665

BARCENAS, EDDIE
308 SW 2ND ST
KERENS TX 75144-2926

CAPERTON, WESLEY KIRK
14534 TAMERISK LN
FARMERS BRANCH TX 75234

BIGGS, WILLIAM H
3707 VALLEY FRG
SACHSE TX 75048-5411

CARPENTER, NORMAN LEE
100 W WASHINGTON ST
STEPHENVILLE TX 76401-4255

BLANTON, LAURA JEAN
1712 HEATHER RD
GAINESVILLE TX 76240-5110

CHAPMAN, TY C
PO BOX 581
ANNA TX 75409-0581

BLOCKER, TERRI R
PO BOX 534045
GRAND PRAIRIE TX 75053-4045

CLARK, DUANE L
1102 RED BIRD LN
GRANBURY TX 76048-2561

COOPER, JAMES VICTOR JR
711 W MAIN ST
WAXAHACHIE TX 75165-3239

COPELAND, ANGELA R
2640 REFUGE RD
SHERMAN TX 75092-5890

COTTONGAME, JASON W
301 S MAIN ST
SPRINGTOWN TX 76082-2605

COX, ALVA D
1730 BENT TREE CT
GRANBURY TX 76049-8086

CRABB, RICHARD G
504 NORTHGATE DR
WAXAHACHIE TX 75165-4637

CRAIG, MIKEL J
3670 BLACKCHAMP RD
MIDLOTHIAN TX 76065-5741

CROCKER, CASEY W
4946 MURR RD
VENUS TX 76084-4706

DAMRON, GREG W
900 THOMPSON ST
BRIDGEPORT TX 76426-2351

DARR, FERRIS D RS
4014 DUNN CT
GRANBURY TX 76049-2121

DICKENS, DONNIE R
2704 TEA OLIVE DR
GLENN HEIGHTS TX 75154

DOOLY, MICHAEL W
105 COCKRELL HILL RD
OVILLA TX 75154-1492

DOTY, LESLIE B
2002 TOWN NORTH DR
CLEBURNE TX 76033-7918

DOUGHTY, STEVEN D
4354 COUNTY ROAD 2629
CADDO MILLS TX 75135-7477

EDWARDS, CLIFFORD LEE RS
226 JAIME JACK DR
GRAND PRAIRIE TX 75052-3579

EDWARDS, RONALD KENT
PO BOX 336
SANTO TX 76472-0336

ELLIOTT, WILLIAM H
3711 POPLAR CT
CARROLLTON TX 75007-1927

FILLPOT, KENNETH L SR
651 DEER VALLEY RD
WEATHERFORD TX 76085-8058

FISCHER, DAVID HAMMOND
6212 SHADY HILL CIR
PRINCETON TX 75407-4479

FORTNER, JAMES RICKEY SR
9616 COUNTY ROAD 579
ANNA TX 75409-7414

FREEMAN, LESLIE R
443 STRATA DR
DENTON TX 76201-1859

FUQUA, PHILLIP K
6395 RENDON NEW HOPE RD
FORT WORTH TX 76140-8321

GIBSON, RICKEY
229 BILBAO DR ST
AUGUSTINE FL 32086-8853

GLOVER, JOHN D RS
27 COLE CIR
KRUM TX 76249-5111

GOODE, TOM A III
PO BOX 899
DECATUR TX 76234-0899

GRASSL, REBECCA L RS
1615 LYNNHAVEN RD
FORT WORTH TX 76103-1809

GRAY, BETTY JOY RS
2377 N STEMMONS FWY, STE 609
DALLAS TX 75207-2705

GRAY, ROBERT L
300 W 2ND AVE STE 16
CORSICANA TX 75110-3004

HARDAGE, CYNTHIA
567 W 8TH ST
LANCASTER TX 75146-1579

HARDIN, WILLIAM A
PO BOX 1581
GRANBURY TX 76048-8581

HARRELL, JEFFREY T
PO BOX 1282
DENISON TX 75021-1282

HEIN, ALAN J
205 S MAIN ST
FARMERSVILLE TX 75442-2209

HENDERSON, VALERI E B
1541 SUNSWEPT TER
LEWISVILLE TX 75077-2414

HENSLEY, TOMMY L
3311 SANGER CREEK WAY
WAXAHACHIE TX 75165-5939

HIBBS, JAMIE R
PO BOX 247
MERIT TX 75458-0247

HODGES, NANCY J
2411 ROCK CHURCH HWY
TOLAR TX 76476-6331

HUSKINS, DANIEL C
PO BOX 257
ITALY TX 76651-0257

JANAK, EDWARD F JR
200 N 13TH ST STE 113
CORSICANA TX 75110-4671

JEFFERSON, DAVID GEORGE RS
1101 S MAIN ST STE 2300
FORT WORTH TX 76104-4802

JENKINS, ANTHONY DEWITT RS
720 GOLDWOOD DR
DALLAS TX 75232-3956

JENSEN, DAVID JONES RS
8301 TUCSON TRL
FORT WORTH TX 76116-5023

JONES, CURTIS S JR
2727 PONCE DE LEON
GRAND PRAIRIE TX 75054-5510

JONES, KEITH
4524 N FM 730
DECATUR TX 76234-6924

KENDRO, JOHNNY JOSEPH
285 UPTOWN BLVD STE 100
CEDAR HILL TX 75104-3526

LANE, PAUL DAVID
PO BOX 207
SHERMAN TX 75091-0207

LANHAM, MICHAEL VAN ZANDT
4401 COUNTY ROAD 309
CLEBURNE TX 76031-9022

LILLY, JOSEPH WAYNE RS
6500 FM 513 S
LONE OAK TX 75453-5102

LYERLA, KENNETH R
PO BOX 871
KAUFMAN TX 75142-0871

MACHADO, GARY W
2111 SEQUOYAH WAY
CARROLLTON TX 75006-3139

MARLAR, PHILLIP ROSS
PO BOX 274
SCURRY TX 75158-0274

MARTINDALE, BARBARA E RS
312 MAKARWICH CT
RIVER OAKS TX 76114-3619

MAULDIN, REBECCA S RS
5001 CONTRARY CREEK RD
GRANBURY TX 76048-7571

MAYFIELD, OLIVER K
4731 OLD HIGHWAY 67 N
MIDLOTHIAN TX 76065-4365

MCAUSLAND, JAMES DALE RS
1504 SPANISH TRAIL DR
GRANBURY TX 76048-2709

MCCAULEY, KENNITH E SR
PO BOX 899
DECATUR TX 76234-0899

MCCORD, DANIEL R
1201 N HIGHWAY 77 STE 100
WAXAHACHIE TX 75165-7828

MCDONALD, DAVID S
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MINERAL WELLS TX 76067

MCELHANEY, RICKY E
PO BOX 220
ENNIS TX 75120-0220

MERRITT, RON ALAN
101 S FANNIN ST
ROCKWALL TX 75087-3775

MILLER, DONALD R
PO BOX 217
KRUM TX 76249-0217

MILLER, VICTORIA L
10201 N SHORE DR
FORT WORTH TX 76135-9379

MOORE, ALAN D
3512 COUNTY ROAD 123
GAINESVILLE TX 76240-7187

MORRIS, KATHY ANN
3003 S WASHINGTON ST
KAUFMAN TX 75142-3664

NANTZ, JAMES B
3017 HIGHRIDGE TRL
GRAND PRAIRIE TX 75052-7481

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STRAWN TX 76475-0545

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3003 S WASHINGTON ST
KAUFMAN TX 75142-3664

NORTON, TROY L II
7200 HAWK RD
FLOWER MOUND TX 75022

OLSON, BARBARA X
1777 WITHERS RD
MINERAL WELLS TX 76067

OSBORN, WILLIAM B
2416 IVIE LN
WEATHERFORD TX 76087-4902

PATRICK, DOUGLAS LOYD RS
162 LONGBRANCH DR
DECATUR TX 76234-5309

PATY, TIMOTHY D
714 N WASHINGTON ST
FARMERSVILLE TX 75442-1107

PENDERGRAFT, MIKE F
210 JONES RD
GRAFORD TX 76449-3123

PETERS, HARRY DELANO JR
2511 RANGER HWY
WEATHERFORD TX 76088-9110

PHILLIPS, RUDOLPH RS
124 DESIREE LN
HIGHLAND VILLAGE TX 75077

POLLOCK, LARRY E
130 TRANQUIL PL
WAXAHACHIE TX 75167-7206

RACKLEY, RONALD D
412 BLUE RIDGE TRL
SAGINAW TX 76179-1801

ROBBINS, DONNA L
112 SPANISH TRL
WEATHERFORD TX 76088-8370

ROBINSON, JASON E
PO BOX 38
RED OAK TX 75154-0038

ROBINSON, PERRY L RS
2121 CROSS TIMBERS RD
FLOWER MOUND TX 75028

RODGERS, TERRY DON RS
5725 FM 1181
ENNIS TX 75119-5515

RODRIGUEZ, WERNER G
1531 S STATE HIGHWAY 121, APT 2612
LEWISVILLE TX 75067

ROGERS, GEORGE W JR
569 RIDGEMONT DR
ALLEN TX 75002-4082

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ROUMELL, LARRY W
749 RANCH RD
FORT WORTH TX 76131-4525

RYZA, KAYLEEN N
6825 GREENACRES DR NORTH
RICHLAND HILLS TX 76182

SANJACINTO, EDDIE DAVID
605 LONESTAR PARK LN
PONDER TX 76259-8476

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RAINBOW TX 76077-0356

SHIELDS, JODY R
2010 ADVANCE RD
WEATHERFORD TX 76088-1255

SHUMATE, ADAM B
1620 RIDGE HAVEN DR, APT 605
ARLINGTON TX 76011-9039

SLAUGHTER, SCOTT T
2825 LUELLA RD
SHERMAN TX 75090-5150

SLOGGETT, MICHAEL K
7704 ILESON RD
AUBREY TX 76227-4476

SMITH, BOBBIE J
635 MARY WILSON DR
LANCASTER TX 75146-2155

SPEAKS, PAMELA J
PO BOX 401
WAXAHACHIE TX 75168-0401

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SHERMAN TX 75091-3512

STEPHENSON, DANNY P
1114 SANTA FE DR
WEATHERFORD TX 76086-5818

STEVENSON, WILLIE L
1504 CHAUCER DR
CLEBURNE TX 76033-7513

STEWART, JOHN D
6100 BRENHAVEN RD
ARLINGTON TX 76017-0527

STOCKBURGER, KELLY RS
112 SLEEPY HOLLOW DR
ROYSE CITY TX 75189-4700

STONE, FELTON K
7895 OLD AGNES RD
POOLVILLE TX 76487-5978

STOUT, JOE W
306 E OAK ST
WEATHERFORD TX 76086-4427

STOVER, NEY N
3761 DUNHAVEN RD
DALLAS TX 75220-3600

STUART, JENNIFER L
10201 N SHORE DR
FORT WORTH TX 76135-9379

SWIIM, ERIC T
112 N CHERRY LN
GRANBURY TX 76048-1807

TERRELL, DARREN B
3709 BLUEBONNET CIR
WEATHERFORD TX 76087-9359

TIDWELL, TERRY W
PO BOX 239
MCKINNEY TX 75070-8134

VANCE, LELAND D
3717 PRIVATE ROAD 3770
WILLS POINT TX 75169-5434

VAUGHN, RANDY G
119 PALO PINTO ST
WEATHERFORD TX 76086-4325

WAKEFIELD, JERRY D
101 LAKEVIEW CIR
WAXAHACHIE TX 75165-6826

WALLACE, JIMMY N
5348 COUNTY ROAD 423
GRANDVIEW TX 76050-3362

WARE, CINDY L
1484 MARY DR
WEATHERFORD TX 76085-8037

WHITE, JERRY D
100 W HOUSTON ST STE G2
SHERMAN TX 75090-0017

WHITE, ROBERT C
1009 E CHERRY ST
SHERMAN TX 75090-6814

WHITE, ROD V RS
2008 BETHEL RD
WEATHERFORD TX 76086-6110

WILSON, LORAN L
121 FAIRWAY DR
WAXAHACHIE TX 75165-1637

WILSON, REBECCA K
1682 CHUKAR DR
AUBREY TX 76227-8599

YOUNG, STANLEY C
300 W 3RD AVE STE 16
CORSICANA TX 75110-4677

Texas Commission on Environmental Quality Region 5 - Tyler

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WINNSBORO TX 75494-0232

CAVENESS, JOHN MACK
PO BOX 1965
PALESTINE TX 75802-1965

ALLEN, JAMES G
PO BOX 718
MOUNT VERNON TX 75457

CRAFTON, TRAVIS K
801 DELWOOD DR
LONGVIEW TX 75605-3113

ALPHIN, JACKIE RAY
182 COUNTY ROAD SE 3286
MOUNT VERNON TX 75457

CRECELIUS, GARY W
9111 COUNTY ROAD 3817
ATHENS TX 75752-5464

BAILEY, JAMES H
6799 ASHBY LN
TRINIDAD TX 75163-2221

DICKINSON, JAE YLETTE
3276 CLEVELAND ST
PARIS TX 75460-6404

BEHRENS, JASON T
1021 N JOHNSON ST
MINEOLA TX 75773-1819

DUKE, WENDELL LEO
1525 FROST ST
GILMER TX 75644-3131

BELL, STEVEN W
PO BOX 51
EUSTACE TX 75124-0051

ENSMINGER, GREGORY L
19314 COUNTY ROAD 1332
FLINT TX 75762-9536

BLEVINS, RICHARD MURRAY JR
210 W LAUREL LN
AVINGER TX 75630-8216

FINCHER, WILLIAM D
96 COUNTY ROAD 3769
QUEEN CITY TX 75572-8015

BREEDLOVE, STEVE M
PO BOX 905
BULLARD TX 75757-0905

FITCH, AMY M
3800 FIVE NOTCH RD
MARSHALL TX 75672-6016

BUTLER, BUCKLEY
6613 ASHBY LN
TRINIDAD TX 75163-2219

GALINDO, ALMA ROSA
PO BOX 8302
TYLER TX 75711-8302

CARR, HAROLD LAWRENCE
253 RS COUNTY ROAD 1305
EMORY TX 75440-5978

GASAWAY, BRUCE D
PO BOX 465
HENDERSON TX 75653-0465

GASAWAY, JOHN W
17071 FM 1798 W
HENDERSON TX 75654-6075

GIBSON, GARY M
1104 W BROADWAY ST
WINNSBORO TX 75494-2006

HARMAN, JEFFERY L
7455 COUNTY ROAD 414 W
HENDERSON TX 75654-6060

HARRIS, JAMES G
9446 FM 724
TYLER TX 75704-4444

HENRY, TROY D RS
353 PRIVATE ROAD 5183
QUITMAN TX 75783-5642

HESTER, JAMES CARLYLE III
3800 FIVE NOTCH RD
MARSHALL TX 75672-6016

HUGGINS, JAMES CARROLL PE
14000 SH 31 WEST
TYLER, TX 75709

IRVIN, CLAY C
1614 LIME TREE RD
GILMER TX 75644-3705

JAMES, HUGHIE E
1700 W MAIN ST
CLARKSVILLE TX 75426-3304

JAMES, KENNETH D
4909 BACLE RD
LONGVIEW TX 75604-9490

JONES, STEVEN WAYNE
PO BOX 1965
PALESTINE TX 75802-1965

KILLINGSWORTH, FRED K
763 SAM PAGE RD
LONGVIEW TX 75605-8116

KIRBY, WILLIAM J
508 S BOYD ST
LINDALE TX 75771-3208

MARTIN, KENDALL L
PO BOX 1447
CANTON TX 75103-8069

MATHIS, WILLIAM RICKY
PO BOX 1033
LONE STAR TX 75668-1033

MATTHEWS, DEE A
PO BOX 819
FRANKSTON TX 75763-0819

MCBRIDE, CHRISTOPHER R
3800 FIVE NOTCH RD
MARSHALL TX 75672-6016

METHVEN, STEPHEN D
658 COUNTY ROAD 32260
SUMNER TX 75486-5674

MONROE, STACEY KENT
PO BOX 55
EUSTACE TX 75124-0055

MUSE, MARSHELL W P O
BOX 955
HUGHES SPRINGS TX 75656

OAKLEY, WARREN DALE
RR 8 BOX 2851
JACKSONVILLE TX 75766-1060

PAFFORD, HOWARD L
PO BOX 101
PITTSBURG TX 75686-0101

PHILLIPS, JIMMY LEON
822 COUNTY ROAD
2206 TEXARKANA TX 75501

PLEDGER, CHRISTOPHER C RS
1184 VZ COUNTY ROAD 4909
BEN WHEELER TX 75754-4205

PLEDGER, JAMES M
180 W KANSAS ST
VAN TX 75790-3556

PORTER, LORI A
PO BOX 579
DIANA TX 75640-0579

PRINCE, KEVIN R
6613 ASHBY LN
TRINIDAD TX 75163-2219

REIS, JENNIFER
202 THIGPEN DR APT 510
TYLER TX 75703-4920

RENKO, SANDY
PO BOX 62
CANTON TX 75103-0062

SANDERSON, DENNIS G
13000 COUNTY ROAD 3300
BROWNSBORO TX 75756-3514

SKYRME, MICHELLE MARIE
405 E MARSHALL AVE
LONGVIEW TX 75601-5440

SMITH, DOUGLAS W
2525 COUNTY ROAD 3802
BULLARD TX 75757-2907

SPEIGHT, ROBERT O JR
2670 BLAIRS LANDING RD
KARNACK TX 75661-1710

STAGGS, RONALD H
100 W 1ST ST RM 104
MT PLEASANT TX 75455-4452

STOVALL, JASON T
419 HIGGINBOTHAM ST
ALBA TX 75410-2657

STUARD, RONNIE
2746 HWY 271 S
PITTSBURG TX 75686-5954

STUART, KIRK G
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POINT TX 75472-0294

THOMAS, WALTER L
418 W HARRISON ST
JEFFERSON TX 75657-1014

THOMPSON, MICHAEL D
3800 FIVE NOTCH RD
MARSHALL TX 75672-6016

TRAMEL, MICHAEL G
3800 FIVE NOTCH RD
MARSHALL TX 75672-6016

WATSON, JODY L
1220 S BOLTON ST
JACKSONVILLE TX 75766-3314

WELLS, SCHELBY A
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EMORY TX 75440-0194

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Texas Commission on Environmental Quality Region 6 - El Paso

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6036 PALMDALE ST
EL PASO TX 79932-3810

JARVIS, SAMUEL W
5145 PEACOCK LN
EL PASO TX 79924-3329

MARQUEZ, JOSE SR
5115 EL PASO DR
EL PASO TX 79905-2818

MORALES, MANUEL A SR
11859 PRISCILLA CIR
EL PASO TX 79936-6742

MUNOZ, IDA M
10133 SINGAPORE AVE
EL PASO TX 79925-5418

PRIDGEON, ZEDOCH LYNN
227 STERN DR
EL PASO TX 79932-1416

RAMIREZ, ADOLFO MORALES
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SIERRA BLANCA TX 79851-0143

ROMAN, BLASA
10229 BAYO AVE
EL PASO TX 79925-4347

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CANUTILLO TX 79835-1472

Texas Commission on Environmental Quality Region 7 - Midland

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ODESSA TX 79761-5126

BLAIR, JUDITH MARIE
5400 RIDGEMONT CT
MIDLAND TX 79707-9114

PECK, DAVID A RS
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FRANTZ, DWAYNE E
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RIVAS, ADAN
3303 W ILLINOIS AVE STE 22
MIDLAND TX 79703-6232

GARCIA, CELESTINO R RS
1521 ANDERSON AVE
ODESSA TX 79761-6826

SOLLA, GINO RS
1824 E 49TH ST
ODESSA TX 79762-4525

GOMEZ, ALFREDO M
1518 S IOWA ST
PECOS TX 79772-5604

TATOM, LISA
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HERRERA, RICARDO D SR
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PECOS TX 79772-6900

WALKER, JESSIE E
2275 S DAVIS DR
FORT STOCKTON TX 79735

HOLBROOKS, ZACHARY U
300 SE AVENUE C
SEMINOLE TX 79360-4476

WATTS, BRADLEY R
211 NW 1ST ST
ANDREWS TX 79714-6303

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433 DALLAS ST
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Texas Commission on Environmental Quality Region 8 - San Angelo

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MASON TX 76856-0995

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KRUSE, CARISSA L
3102 WOODLAND CIR
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PATE, ELIZABETH A
2550 S STATE HIGHWAY 70
BLACKWELL TX 79506-3114

WEISHUHN, PAMELA JAMES RS
10621 FM 380
PAINT ROCK TX 76866-3650

ZALESKI, KAREL ELAINE RS
2926 SOUTHLAND BLVD
SAN ANGELO TX 76904-7443

Texas Commission on Environmental Quality Region 9 - Waco

ACREMAN, RANDALL PAUL
6373 PAPPAS RD
WALLER TX 77484-6662

CMAJDALKA, SHELLY L
201 N TEXAS AVE
BRYAN TX 77803-5317

ALEXANDER, DANNY J
812 ROSEDALE DR
HEWITT TX 76643-4003

DAVENPORT, SHARON M
224 COUNTY ROAD 272
BREMONT TX 76629-4404

BAKER, CLARENCE A
113 S 7TH ST
GATESVILLE TX 76528-2011

DEBOARD, KENNETH W
PO BOX 427
FRANKLIN TX 77856-0427

BOLCH, EDGAR BUN RS
103 N BREWER DR
BRYAN TX 77802-1328

FISCHER, ROBERT E
1642 MORNING STAR
BRYAN TX 77808-6264

BOLT, DALE E
100 W BUCK ST STE 306
CALDWELL TX 77836-1764

GAMBOA, JOSE L
2001 FM 389 TRLR 77
BRENHAM TX 77833-5234

BOONE, JANET R
PO BOX 81
NORTH ZULCH TX 77872-0081

GRACE, RICHARD L
1785 HC 1212
BLUM TX 76627-3044

BOYD, FRED H JR
13637 FM 56
MORGAN TX 76671-3208

GROOMS, DONALD L JR
101 W MAIN ST STE 110
MADISONVILLE TX 77864-1901

BUTLER, JULIA L
5 MARINER DR
BELTON TX 76513-6436

GULEBIAN, CHARLES H
717 E WHITE OAK RD
WEST TX 76691-1956

CARTER, BILL M
1351 MEIXNER RD
WACO TX 76705-5318

GUTHRIE, VICKI L
185 LCR 472
MEXIA TX 76667-4137

CLARK, VIRGIL B JR
2330 LAKE AMENT RD
APLINE TX 79830

HAMRICK, AL J
500 E WALLACE ST
SAN SABA TX 76877-3608

HARRISON, STEPHEN M JR
140 FM 416
STREETMAN TX 75859-3019

HOBBS, BILLY LEE
PO BOX 127
MULLIN TX 76864-0127

HOBBS, SHELLEY K
201 N TEXAS AVE
BRYAN TX 77803-5317

HOPSON, BILLY C
451 COUNTY ROAD 242
GATESVILLE TX 76528-3241

JAHNS, MICHAEL JAY
2451 PEACH ORCHARD RD
TEMPLE TX 76501-3565

JONES, MICHAEL W PE
705 WILLOW CREEK DR
WACO TX 76712-3570

KASPER, LINDA
6102 HORNE DR
KILLEEN TX 76542-4091

KMIEC, CYNTHIA R
100 E MAIN ST
BRENHAM TX 77833-3700

KUYKENDALL, ERIC L
PO BOX 573
ROSEBUD TX 76570-0573

LEE, KATHERENE M
1970 COUNTY ROAD 211
ANDERSON TX 77830-8479

LITKE, DAVID L
225 W WACO DR
WACO TX 76707-3836

LITTLE, SARAH L
113 COLE AVE
TEMPLE TX 76501-1406

MAHONEY, DWIGHT EDWARD
20226 STERLING ROBERTSON DAM
RD
THORNTON TX 76687-2072

MARZAHN, MARK LUKE
100 E MAIN ST STE 106
BRENHAM TX 77833-3700

MILLER, KEVIN R
10141 ORCHID LN
WACO TX 76708-6142

MILLER, OVIE G
548 HC 1314
WHITNEY TX 76692-4726

MOORE, DAVY JEFF
20226 STERLING ROBERTSON DAM
RD
THORNTON TX 76687-2072

MUSICK, DENNIS W
255 OLD PRAIRIE LN
VALLEY MILLS TX 76689-2878

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ELM MOTT TX 76640-0417

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PRESCOTT, BRIAN W
404 W FAWN ST
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ROBINSON, CHRIS D RS
211 COUNTY ROAD 501
FAIRFIELD TX 75840-6053

ROBINSON, WALTER R
2212 COUNTY ROAD 282
BUFFALO TX 75831-5119

ROGGENBUCK, ROBERT R JR
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COLLEGE STATION TX 77845

SANDERS, BILLY BOB
201 N TEXAS AVE
BRYAN TX 77803-5317

SCOTT, JACKIE K
18889 STERLING ROBERTSON DAM
RD
THORNTON TX 76687-2067

SPEIGHTS, GARY J
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WHITNEY TX 76692-0060

STEPHENS, KENT NEWMAN
11615 MEREDITH DR
BELTON TX 76513-8800

STEWART, CLARENCE WAYNE
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GROESBECK TX 76642-1702

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KEMPNER TX 76539-0558

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451 HC 3220
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CLEVELAND TX 77327-8909

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5431 HARPER FOREST DR
HOUSTON TX 77088-2705

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9306 WESTWOOD VILLAGE DR
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14017 POPLAR ST
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28203 WALNUT HILL DR
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176 WOOD FARM RD
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10222 TABLEROCK DR
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190 COUNTY ROAD 3797
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32 MIKE BETH CIR
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STANDLEY, BETHEL
PO BOX 543
LEAKEY TX 78873-0543

STANDLEY, FAY L
PO BOX 543
LEAKEY TX 78873-0543

TEPE, CARL W
195 DAVID JONAS DR
NEW BRAUNFELS TX 78132

TIMMERMANN, LARRY E
2605 N GUADALUPE ST
SEGUIN TX 78155-7356

TOBOLKA, RICHARD J PE
805 PLEASANT VALLEY DR N
BOERNE TX 78006-5739

Texas Commission on Environmental Quality Region 14 - Corpus Christi

AKERS, JERRY D
275 OAK CREEK DR
GONZALES TX 78629-5258

GARCIA, MANUEL A
1845 MODESTO ST
CORPUS CHRISTI TX 78417

CADENA, YOLANDA B
PO BOX 189
KINGSVILLE TX 78364-0189

GARCIA, NOEMI
2805 N NAVARRO ST
VICTORIA TX 77901-3917

CANTU, MANUEL ARTHUR
236 COUNTY ROAD 3054
ORANGE GROVE TX 78372

GIUDICE, THERESA I
1931 FM 2165
ROCKPORT TX 78382-4300

CARROLL, EVERETT WAYNE
808 COMMERCE ST STE 104
REFUGIO TX 78377-3151

JACKSON, JAMES S RS
1931 FM 2165
ROCKPORT TX 78382-4300

CHAPA, ROEL
PO BOX 669
GEORGE WEST TX 78022-0669

JONES, LAWRENCE ALLEN RS
490 CARMEL PKWY
CORPUS CHRISTI TX 78411

DEWITT, DENNIS C
178 FAIRWAY RDG
BEEVILLE TX 78102-8474

KARPF, RAY DENNIS RS
1702 HORNE RD
CORPUS CHRISTI TX 78416

DIAZ, GLQRIA Y
135 FANNIN ST
CORPUS CHRISTI TX 78415

LEISTER, ROBERT L
2805 N NAVARRO ST
VICTORIA TX 77901-3917

FIKAC, TAMMY G RS
2805 N NAVARRO ST
VICTORIA TX 77901-3917

MARINES, JUAN ANDRES II
1115 N 3RD ST
ROBSTOWN TX 78380-2302

FRITZ, RON T
210 E CORPUS CHRISTI ST
BEEVILLE TX 78102-4812

MAYFIELD, NATHALIA SUE
313 N RACHAL ST
SINTON TX 78387-2617

GARCIA, EMILIO H
PO BOX 1458
KINGSVILLE TX 78364-1458

MCKINNEY, STEVEN M
PO BOX 1004
GOLIAD TX 77963-1004

MILLER, LESLIE BRUCE RS
806 FOXGLOVE DR
EDNA TX 77957-3312

MURPHY, LARRY L SR
900 E MARKET ST
SINTON TX 78387-2921

NICHOLSON, DAVID
PO BOX 356
GEORGE WEST TX 78022-0356

NOYOLA, MARY M
2805 N NAVARRO ST
VICTORIA TX 77901-3917

RAETZER, CLAUS D RS
906 W TERRACE BLVD
ROCKPORT TX 78382-6260

RAMIREZ, SYLVIA E
200 N ALMOND ST
ALICE TX 78332-4845

RIVERA, FLORENTINO L SR
200 N ALMOND ST
ALICE TX 78332-4845

RUNK, DEBORAH J
PO BOX 1036
INGLESIDE TX 78362-1036

SANCHEZ, CARLOS I
1600 ROOSEVELT BLVD
ALICE TX 78332-4026

SHEPARD, KATHY
460 COUNTY ROAD 205
HALLETTSVILLE TX 77964-4085

SHILINGA, CINDY L
2805 N NAVARRO ST
VICTORIA TX 77901-3917

SODERHOLTZ, JAMES W RS
2805 N NAVARRO ST
VICTORIA TX 77901-3917

TIMMS, BOBBY WAYNE JR
1852 TX HWY 188
ROCKPORT TX 78382-7379

TORRES, JASON CHARLES
PO BOX 5482
KINGSVILLE TX 78364-5482

TOUCHSTONE, JAMES T III
905 RAVEN DR
ROCKPORT TX 78382-6311

TURNER, JILL S
2805 N NAVARRO ST
VICTORIA TX 77901-3917

VICE, JODIE M
2805 N NAVARRO ST
VICTORIA TX 77901-3917

WESSON, DOYLE W
PO BOX 2404
FULTON TX 78358-2404

WILLIAMS, DAVID W
2805 N NAVARRO ST
VICTORIA TX 77901-3917

Texas Commission on Environmental Quality Region 15 - Harlingen

BARRERA, NOEL RS
1007 E. 3 MILE RD.
MISSION TX 78573

MORA, CALIXTO JR
204 W MILLER ST
FALFURRIAS TX 78355-4937

CASTILLO, RICARDO
1390 W EXPRESSWAY 83
SAN BENITO TX 78586-7633

MORENO, MATEO
1821 E HIGINIO CIR
ROMA TX 78584-8212

FLORES, GUADALUPE
920 E CEDAR AVE
MCALLEN TX 78501-9315

OLIVARES, GUSTAVO
1390 W EXPRESSWAY 83
SAN BENITO TX 78586-7633

GALVAN, LUIS ALBERTO
1008 E BOB POOL AVE
PHARR TX 78577-7796

RAMIREZ, ADAN G JR
576 W MAIN AVE
RAYMONDVILLE TX 78580-1944

GARCIA, ANTONIO
208 N WOODROW WILSON ST
RIO GRANDE CITY TX 78582

RAMOS, ELIZARDO JR
1304 S 25TH AVE
EDINBURG TX 78542-7205

GARZA, JAIME
PO BOX 71
ROMA TX 78584-0071

SANCHEZ, MARIO A JR
3121 RAMSEY DR
MISSION TX 78574-8100

GONZALES, JOSE G
1304 S 25TH AVE
EDINBURG TX 78542-7205

SILVA, JESSE
1390 W EXPRESSWAY 83
SAN BENITO TX 78586-7633

HERNANDEZ, RUBEN SR
1304 S 25TH AVE
EDINBURG TX 78542-7205

MARTINEZ, MANUEL A MD
25103 SENDERO W
HARLINGEN TX 78552-5060

MATA, RAFAEL
1204 E PINE AVE
PHARR TX 78577-6152

Texas Commission on Environmental Quality Region 16 - Laredo

ALDERETE, TONY G
6 BROADCREST DR
LAREDO TX 78045-2435

CERNY, ROGER S SR
400 PECAN ST
DEL RIO TX 78840-5140

CISNEROS, RAFAEL JR RS
1412 ALAMEDA DR
LAREDO TX 78045-6237

FELAN, MARIO
500 QUARRY ST STE 12
EAGLE PASS TX 78852-4577

GARCIA, ENRIQUE
PO BOX 500
BRACKETTVILLE TX 78832-0500

GARCIA, JUAN O JR
802 DONER RD
LAREDO TX 78045-7814

GLENN, DANIEL T
230 GREGORY DR
DEL RIO TX 78840-8714

GONZALEZ, SAMUEL RS
2600 CEDAR AVE
LAREDO TX 78040-4040

RODRIGUEZ, ELOY F SR
PO BOX 1423
CARRIZO SPRINGS TX 78834

SAENZ, GUILLERMO M
PO BOX 15032
ZAPATA TX 78076-5032

Appendix C: Sign-in sheets for training events.

The designated representatives are required to sign-in for the course. Five designated representatives attended the course in Lubbock, TX on February 9 & 10, 2010 (Figure C-1).

ANALYZING WASTEWATER TREATMENT SYSTEMS
USDA-ARS, Lubbock Texas

February 9-10, 2010

SIGN-IN SHEET FOR DESIGNATED REPRESENTATIVES

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

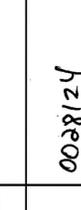
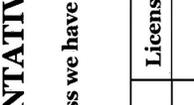
Name	Authorized Agent	Address	License Number	Signature
✓ Joe K. Haragrove	Crosby County	699 S. Grain St Crosbyton, TX 79322		
✓ Zach Holbrooks	South Plains Health District	P.O. Box 598 Seminole, TX 79360	0028124	
✓ Charles R. Walsh	City of Amarillo Environmental Health	P.O. Box 1971 Amarillo, TX 79105-1971	0027607	
✓ Victoria Baga	South Plains Health District	503 S 1st Avenue PO BOX 1291, 79311	0026475	
✓ MARK RICH	LUBBOCK COUNTY	10019 WOODROW RD. ROPERVILLE, TX 79358	0007075	
✓ Eva Flores	Lubbock County	2833 64th St Lubbock TX	21855	

Figure C-1. Designated representatives signatures for attendance at Lubbock course, February 9 & 10, 2010

The training course in San Marcos on March 1 & 2, 2010 had a total of 40 designated representatives in attendance (Figure C-2, C-3, C-4, C-5, C-6).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hays County Extension Office, San Marcos Texas

March 1-2, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	AA	Address	City/State/Zip	License Number	Signature
Charles Allen	Travis County	P.O. Box 1748	Austin, TX 78767	050025765	<i>Charles Allen</i>
Neal Atkins	Travis County	P.O. Box 1748	Austin, TX 78767	05007870	<i>Neal Atkins</i>
Daniel Balboa	City of Austin	625 E 10th Street #715	Austin, TX 78701	RS 3161 DR 28254	<i>Daniel Balboa</i>
Bradley Barron	City of Austin	625 E 10th Street #715	Austin, TX 78701	050024288	<i>Bradley Barron</i>
Louis W Bergman, III	Liberty County	2103 Cos	Liberty, TX 77575		
Roxie Botkin	Hays County Environmental Health	1250 Civic Center Loop	San Marcos, TX 78666	050028975	<i>Roxie Botkin</i>
Drew Bridges	Travis County	P.O. Box 1748	Austin, TX 78767	050074817	<i>Drew Bridges</i>
Thomas Caffall	Travis County	P.O. Box 1748	Austin, TX 78767	050028255 DR	<i>Thomas Caffall</i>
James Filtout, Jr.	Travis County	P.O. Box 1748	Austin, TX 78767	Instructional Site Exp. 050018022 DR 056619	<i>James Filtout, Jr.</i>
Jaimie Garza	City of Roma	P.O. Box 947	Roma, TX 78584	DR 050006859 Site Exp. 050018022 CODE ENA 1362	<i>Jaimie Garza</i>

Figure C-2 Designated representatives attending the Analyzing Wastewater Treatment Systems course in San Marcos on March 1 & 2, 2010 (Part 1 of 5).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hays County Extension Office, San Marcos Texas

March 1-2, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	AA	Address	City/State/Zip	License Number	Signature
James Garza	Hays County Environmental Health	1251 Civic Center Loop	San Marcos, TX 78666	05 0000 27596	
James S Grabbs	City of Austin	625 E 10th Street #715	Austin, TX 78701	05 000 9160	
Terri Griggs	Travis County	P.O. Box 1748	Austin, TX 78767	05 0007 280	
Douglas Hanel	Liberty County	2103 Cos	Liberty, TX 77575	05 0008 937	
Jimmy Harless	Guadalupe County	2605 N Guadalupe St.	Seguin, TX 78155	05 000 25225	
Sandra Hernandez	Comal County	195 David Jonas Dr.	New Braunfels, TX 78132		
Kenneth James	City of Longview	P.O. Box 1952	Longview, TX 75606	05 000 7170	
Howard Kepple	City of Austin	625 E 10th Street #715	Austin, TX 78701	05 9611 05 2924	
Joe M Lara	City of New Braunfels	424 S Castell	New Braunfels, TX 78130	05 000 24180 05 000 6453	
James Maynard	Lower Colorado River Authority	3701 Lake Austin Blvd.	Austin, TX 78767	05 000 4712 05 3300	
Seyed Miri	City of Austin	625 E 10th Street #715	Austin, TX 78701	05 000 7844	

Figure C-3 Designated representatives attending the Analyzing Wastewater Treatment Systems course in San Marcos on March 1 & 2, 2010 (Part 2 of 5).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hays County Extension Office, San Marcos Texas

March 1-2, 2010

SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	AA	Address	City/State/Zip	License Number	Signature
Larry L. Murphy	San Patricio County	313 N Rachal	Sinton, TX 78387	150027337	[Signature]
Loan Nguyen	City of Austin	625 E 10th Street, #715	Austin, TX 78701	OS0008430	[Signature]
Mike Orr	Guadalupe County	2605 N Guadalupe St.	Seguin, TX 78155	0026210	[Signature]
Chris Perez	City of Austin	625 E 10 Street #715	Austin, TX 78701	05002685	[Signature]
Paulo Pinto	Williamson County	303 Main	Georgetown, TX 78626	OS00308 05007173	[Signature]
Michael Polley	City of Bee Cave	4000 Galleria Pkwy	Bee Cave, TX 78738	DR 050024147	[Signature]
Tom Pope	Hays County	1251 Civic Center Loop	San Marcos, TX 78666	DA 269154	[Signature]
April Porter	Hays County	1251 Civic Center Loop	San Marcos, TX 78666	050030810	[Signature]
Bob Pratt	Hays County	1251 Civic Center Loop	San Marcos, TX 78666	OS 6528	[Signature]
Richard E Price	City of Austin	625 E 10th Street #715	Austin, TX 78701	OS 8063	[Signature]
Brenda Ritzen	Comal County	195 David Jonas Dr.	New Braunfels, TX 78132		[Signature]

Figure C-4 Designated representatives attending the Analyzing Wastewater Treatment Systems course in San Marcos on March 1 & 2, 2010 (Part 3 of 5).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hays County Extension Office, San Marcos Texas

March 1-2, 2010

SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	AA	Address	City/State/Zip	License Number	Signature
Kermit A Roeder	Blanco County	P.O. Box 471	Johnson City, TX 79636	8149 050008491	<i>[Signature]</i>
Guillermo M Saenz	Zapata County	P.O. Box 15032	Zapata, TX 78076	050028702	<i>[Signature]</i>
Steve Schiewe	Travis County	P.O. Box 1748	Austin, TX 78767	050018399	<i>[Signature]</i>
Eric Schneider	Hays County Environmental Health	1250 Civic Center Loop	San Marcos, TX 78666	050028367	<i>[Signature]</i>
Christy Shull	City of Westlake Hills	911 Westlake Dr.	Westlake, TX 76262		
Corrie Smith	Hays County Environmental Health	1250 Civic Center Loop	San Marcos, TX 78666	050006532	<i>[Signature]</i>
George Smith	City of Austin	625 E 10th Street #715	Austin, TX 78701	050006938	<i>[Signature]</i>
Jon Thompson	City of Dripping Springs	P.O. Box 384	Dripping Springs, TX 78620	050024581	<i>[Signature]</i>
Ken Toon	Travis County	P.O. Box 1748	Austin, TX 78767	0007041	<i>[Signature]</i>
Thomas Touchstone	San Patricio County	313 N Rachal	Sinton, TX 78387	050006462	<i>[Signature]</i>

Figure C-5 Designated representatives attending the Analyzing Wastewater Treatment Systems course in San Marcos on March 1 & 2, 2010 (Part 4 of 5).

The training course in Granbury on March 30 & 31, 2010 had a total of 20 designated representatives in attendance (Figure C-7, C-8, C-9).

March 30-31, 2010

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hood County Extension Office, Granbury Texas

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Edward Adams	City of Wichita Falls	1700 Third Street	Wichita Falls, TX 76301	OS 000 6169	<i>Edward Adams</i>	EA
Tanya Apple	Hood County	1402 West Pearl	Granbury, TX 76048	OS 002 1064	<i>Tanya Apple</i>	TA
Cody Biggs	Brazos River Authority	301 Observation Point Road	Graford, TX 76449	OS 002 0560	<i>Cody Biggs</i>	CB
Wade Busch	Somervell County	P.O. Box 630	Glen Rose, TX 76043	OS 000 0306	<i>Wade Busch</i>	WB
Norman Carpenter	Erath County	100 W Washington	Stephenville, TX 76401	OS 007 002	<i>Norman Carpenter</i>	NC
Duane Clark	City of Granbury	401 N Park Street	Granbury, TX 76048	OS		
Alva Cox	City of Granbury	401 N Park Street	Granbury, TX 76048	OS 002 3761	<i>Alva Cox</i>	AC
Ferris Darr	Hood County	1402 West Pearl	Granbury, TX 76048	OS 000 104	<i>Ferris Darr</i>	FD
Lou Franklin	Wichita County	1700 Third Street	Wichita Falls, TX 76301	OS 002 4821	<i>Lou Franklin</i>	LF
James Garcia	City of Wichita Falls	1700 Third Street	Wichita Falls, TX 76301	OS 002 4822	<i>James Garcia</i>	SG

Figure C-7 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Granbury on March 30 & 31, 2010 (Part 1 of 3).

March 30-31, 2010

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hood County Extension Office, Granbury Texas

SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
William A Hardin	Hood County	1402 West Pearl	Granbury, TX 76048	OR 0027700 OS 0001232	<i>William A Hardin</i>	WA
Michael Jahns	Bell County	410 Cottingham	Temple, TX 76504	OS 0006525	<i>Michael Jahns</i>	MJ
David J Jensen	Tarrant Regional Water District	10201 North Shore Drive	Fort Worth, TX 76135	RS 2626 0012387 OS 0007604	<i>David Jensen</i>	DJ
Becky Mauldin	City of Granbury	116 W Bridge Street	Granbury, TX 76048	OS 0028026	<i>Becky Mauldin</i>	BM
James McAusland	Hood County	1402 West Pearl	Granbury, TX 76048	OS 0007301	<i>James McAusland</i>	JM
David McDonald	Palo Pinto County	P.O. Box 245	Palo Pinto, TX 76484	OS _____		
M Daniel Nava	Palo Pinto County	P.O. Box 545	Strawn, TX 76475	OS 0028122	<i>M Daniel Nava</i>	MD
Mike Pendergraft	Brazos River Authority	301 Observation Point Road	Graford, TX 76449	OS 0026211	<i>Mike Pendergraft</i>	MP
Thomas West Shepard	Somervell County	P.O. Box 356	Rainbow, TX 76077	OS 0007063	<i>Thomas West Shepard</i>	WS
Kent Stephens	Bell County	410 Cottingham	Temple, TX 76504	OS 0007051	<i>Kent Stephens</i>	KS

Figure C-8 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Granbury on March 30 & 31, 2010 (Part 2 of 3).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Hood County Extension Office, Granbury Texas

March 30-31, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Danny Stephenson	Parker County Health Department	1114 Santa Fe	Weatherford, TX 76086	OS 0062325	<i>[Signature]</i>	<i>[Initials]</i>
Loran Wilson, Jr	City of Waxahachie Environmental Health Department	P.O. Box 173	Waxahachie, TX 75165	OS 0013119 OS 0006445	<i>[Signature]</i>	<i>[Initials]</i>
				OS		
				OS		
				OS		
				OS		
				OS		
				OS		

Figure C-9 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Granbury on March 30 & 31, 2010 (Part 3 of 3).

The training course in Bandera on April 20 & 21, 2010 had a total of 23 designated representatives in attendance (Figure C-10, C-11, C-12).

April 20-21, 2010
ANALYZING WASTEWATER TREATMENT SYSTEMS
 Flying L Ranch, Bandera, Texas

**SIGN-IN SHEET FOR
 DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Dale Bolt	Burleson County	100 West Buck, Suite 205	Caldwell, TX 77836	OS 0027480	<i>Dale Bolt</i>	<i>DB</i>
Dwayn C Boos	Gillespie County	101 West Main, Unit #9	Fredericksburg, TX 78624	OS 0011257	<i>Dwayn Boos</i>	<i>DB</i>
Pat Brawner	Medina County	709 Avenue Y	Hondo, TX 78861	OS 008878	<i>Pat Brawner</i>	<i>PB</i>
Roel Chapata	Duval County	P.O. Box 669	George West, TX 78022	OS 0028974	<i>Roel Chapata</i>	<i>RC</i>
Rick Coggins	Uvalde Health Department	1021 Garner Field Road	Uvalde, TX 78801	0011904	<i>Rick Coggins</i>	<i>RC</i>
Dennis DeWitt	Bee County	210 E. Corpus Christi Street	Beeville, TX 78102	OS 0008115	<i>Dennis DeWitt</i>	<i>DD</i>
Ron Fritz	Bee County	210 E Corpus Christi Street	Beeville, TX 78102	OS 0022965	<i>Ron Fritz</i>	<i>RF</i>
Enrique Garcia	City of Brackettville	P.O. Box 526	Brackettville, TX 78832	OS 0026806	<i>Enrique Garcia</i>	<i>EG</i>
Brandi Hanson	Bandera County	P.O. Box 3275	Bandera, TX 78003	OS 0028973	<i>Brandi Hanson</i>	<i>BH</i>
Sandra Hernandez	Comal County	195 David Jonas Drive	New Braunfels, TX 78132	OS 0025599	<i>Sandra Hernandez</i>	<i>SH</i>

Figure C-10 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Bandera on April 20 & 21, 2010 (Part 1 of 3).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Flying L Ranch, Bandera, Texas

April 20-21, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Patricia S Hulett	Kerr County Environmental Health	Court House 700 Main Street, Ste. BA-106	Kerrville, TX 78028	OS 0024420 OS 0018771	<i>Patricia S Hulett</i>	<i>PH</i>
Sanford Jennings	Kendall County	201 E San Antonio Street, Suite 101	Boerne, TX 78006	OS 0007811	<i>Sanford Jennings</i>	<i>SJ</i>
John Journey	Medina County	709 Avenue Y	Hondo, TX 78861	OS 17936 OS 0017936	<i>John Journey</i>	<i>JJ</i>
Charles McDonald	Coleman County	2375 Fishermans Road #52	San Angelo, TX 76903	OS 0067644	<i>Charles McDonald</i>	<i>CM</i>
Stephen Myrick	City of Bee Cave	4000 Galleria Parkway	Bee Cave, TX 78738	OS 0007994	<i>Stephen Myrick</i>	<i>SM</i>
David Nicholson	Live Oak County	P.O. Box 670	George West, TX 78022	OS 0027475	<i>David Nicholson</i>	<i>DN</i>
Rob Oakley	Uvalde Health Department	1021 Garner Field Road	Uvalde, TX 78801	OS _____		
Brenda Ritzen	Comal County	195 David Jonas Drive	New Braunfels, TX 78132	OS 0007782	<i>Brenda Ritzen</i>	<i>BR</i>
Ruben Robles	Frio County	2207 B1 35 E	Pearsall, TX 78061	OS 0008999	<i>Ruben Robles</i>	<i>RR</i>
Domingo Sanchez	Gillespie County	101 W Main Unit #9	Fredericksburg, TX 78624	OS 0007725	<i>Domingo Sanchez</i>	<i>DS</i>

Figure C-11 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Bandera on April 20 & 21, 2010 (Part 2 of 3).

ANALYZING WASTEWATER TREATMENT SYSTEMS
 Flying L Ranch, Bandera, Texas

April 20-21, 2010

**SIGN-IN SHEET FOR
 DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
David P Seagraves	Kerr County Environmental Health	Court House 700 Main Street, Ste BA-106	Kerrville, TX 78028	OS 0028721	<i>David Seagraves</i>	<i>DS</i>
John Stith	Bandera County	P.O. Box 3275	Bandera, TX 78003	OS 0029062	<i>John Stith</i>	<i>JS</i>
Richard Tobolka	Kendall County	201 E San Antonio Street, Suite 101	Boerne, TX 78006	OS 0028128	<i>Richard Tobolka</i>	<i>RT</i>
Cindy Ware	Parker County Health Department	1114 Santa Fe	Weatherford, TX 76086	OS 0006408	<i>Cindy Ware</i>	<i>CW</i>
				OS -----		
				OS -----		
				OS -----		
				OS -----		
				OS -----		

Figure C-12 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Bandera on April 20 & 21, 2010 (Part 3 of 3).

The training course in Midland on April 29 & 30, 2010 had a total of 12 designated representatives in attendance (Figure C-13, C-14).

ANALYZING WASTEWATER TREATMENT SYSTEMS
City of Midland Martin Luther King Jr. Community Center, Midland, Texas

April 29-30, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Judith M Blair	South Plains Health District	5400 Ridgemont Ct	Midland, TX 79707	OS 00006102	<i>Judith Blair</i>	<i>JB</i>
Virgil Clark	Brewster County	2370 Leake Alpine, TX 79830	Alpine, TX 79830	OS 0007739	<i>Virgil Clark</i>	<i>VC</i>
Juan E Davila, Jr.	Midland Health Department	3303 W Illinois Sp 22	Midland, TX 79703	OS 0018309	<i>Juan E Davila</i>	<i>JD</i>
Linda Gallegos	El Paso County	14612 Greg Drive	El Paso, TX 79938	OS 0020251	<i>Linda Gallegos</i>	
Celestino R Garcia	Midland Health Department	3303 W Illinois Sp 22	Midland, TX 79703	OS 05000665	<i>Celestino Garcia</i>	<i>SG</i>
Suzanne Glenn	City of Abilene	555 Walnut, Ste 100	Abilene, TX 79604	OS 0020251	<i>Suzanne Glenn</i>	<i>SG</i>
Ibra Munoz	El Paso County	14612 GBreg Drive	El Paso, TX 79938	OS 0007---	<i>Ibra Munoz</i>	<i>IM</i>
Gregg Olberts	Ector County Health Department	221 N Texas Avenue	Odessa, TX 79761	OS 0020724	<i>Gregg Olberts</i>	<i>GO</i>
David Peck	Ward County	3611 N Francis Avenue	Odessa, TX 79764	OS 0008801	<i>David Peck</i>	<i>DP</i>
Ruben Reyes	Midland Health Department	3303 W Illinois Sp 22	Midland, TX 79703	OS 0020251	<i>Ruben Reyes</i>	<i>RR</i>

Figure C-13 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Midland on April 29 & 30, 2010 (Part 1 of 2).

ANALYZING WASTEWATER TREATMENT SYSTEMS
City of Midland Martin Luther King Jr. Community Center, Midland, Texas

April 29-30, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Blasa Roman	El Paso County	14612 Greg Drive	El Paso, TX 79938	OS 2 4 7 6 6	<i>[Signature]</i>	BR
Gino Solla	Ector County Health Department	221 N Texas Ave	Odessa, TX 79761	OS -----		
Lisa Tatom	Ector County Health Department	221 N Texas Ave	Odessa, TX 79761	OS 0028368 0028368	<i>[Signature]</i>	
Kathryn G Wiseman	Howard County	300 S Main, Room 200	Big Springs, TX 79720	OS 2 2 2 6 1 2	<i>[Signature]</i>	
				OS -----		
				OS -----		
				OS -----		
				OS -----		
				OS -----		
				OS -----		

Figure C-14 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Midland on April 29 & 30, 2010 (Part 2 of 2).

The training course in Conroe on May 24 & 25, 2010 had a total of 20 designated representatives in attendance (Figure C-15, C-16, C-17).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Montgomery County Extension Office, Conroe, Texas

May 24-25, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers)	Signature	Second Day Initial
Raymond C Beckford	Harris County	10555 Northwest Fwy, Suite 120	Houston, TX 77092	OS 0027066	<i>Raymond Beckford</i>	RS
Donald L Bennett	Harris County	10555 Northwest Fwy, Suite 120	Houston, TX 77092	OS 0007127	<i>Donald Bennett</i>	DB
Cheryl Bishop	Polk County Permits	602 E Church St, Suite 165	Livingston, TX 77351	OS 0024813	<i>Cheryl Bishop</i>	CB
Juliana Edwards	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	OS 0016206	<i>Juliana Edwards</i>	JE
Roy Elizondo	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	OS 0027595	<i>Roy Elizondo</i>	RE
Lisa Ellis	Polk County Permits	602 E Church St, Suite 165	Livingston, TX 77351	OS 0019008	<i>Lisa Ellis</i>	LE
Terry Free	Angelina County	240 Shelly Ave	Pollok, TX 75969	OS 0006522	<i>Terry Free</i>	TF
Frank Green	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	OS 0017832	<i>Frank Green</i>	FG
Larry Johnson	Harris County	10555 Northwest Fwy, Ste 120	Houston, TX 77092	OS 0027070	<i>Larry Johnson</i>	LJ

Figure C-15 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Conroe on May 24 & 25, 2010 (Part 1 of 3).

ANALYZING WASTEWATER TREATMENT SYSTEMS
 Montgomery County Extension Office, Conroe, Texas

May 24-25, 2010

**SIGN-IN SHEET FOR
 DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Richard Jordan	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	0022967 05008050	<i>Richard Jordan</i>	<i>RJ</i>
Rebecca Marlow	San Jacinto & Trinity County	192 Miller Road	Livingston, TX 77351	OS		<i>RM</i>
Paul Wayne McNease	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	OS 0008427	<i>Paul Wayne McNease</i>	<i>PM</i>
Scott Nichols	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	OS 0019838	<i>Scott Nichols</i>	<i>SN</i>
Daphne Noble	Angelina County	366 Quincy Dr.	Pollok, TX 75969	OS 0025228	<i>Daphne Noble</i>	<i>DN</i>
Bret Raley	San Jacinto River Authority	1560 Darnsite Road	Conroe, TX 77304	OS 0027603	<i>Bret Raley</i>	<i>BR</i>
Darrel Reed	Montgomery County Env Health	501 N Thompson #101	Conroe, TX 77301	OS 0025232	<i>Darrel Reed</i>	<i>DR</i>
Winford Roberts	Waller County	775 Business 290 E	Hempstead, TX 77445	OS		<i>WR</i>
Stephanie L. Sturman	Harris County	P.O. Box 2282	League City, TX 77574	OS 0009238	<i>Stephanie L. Sturman</i>	<i>SL</i>

Figure C-16 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Conroe on May 24 & 25, 2010 (Part 2 of 3).

**SIGN-IN SHEET FOR
 DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Martha H Winters	Galveston County Health District	P.O. Box 939	LaMarque, TX 77568	OS 0006485	<i>Martha Winters</i>	
Nyla A DeKous	Montgomery County Health District	501 N. Thompson St Ste 101	Conroe TX 77385	OS 0029143	<i>Nyla DeKous</i>	NR
CHARLES LAMBERT	MONTGOMERY COUNTY	501 N. THOMPSON	CONROE TX 77385	OS 007920	<i>Charles Lambert</i>	
				OS		
				OS		
				OS		
				OS		
				OS		
				OS		
				OS		

Figure C-17 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Conroe on May 24 & 25, 2010 (Part 3 of 3).

The training course in Kaufman on June 17 & 18, 2010 had a total of 3 designated representatives in attendance (Figure C-18).

ANALYZING WASTEWATER TREATMENT SYSTEMS
Kaufman County Library, Kaufman, Texas

June 17-18, 2010

**SIGN-IN SHEET FOR
DESIGNATED REPRESENTATIVES**

PLEASE NOTE: You will not receive credit for taking this class unless we have your LICENSE NUMBER and your SIGNATURE! THANKS!

Name	Authorized Agent	Address	City/State/Zip	License Number (OS + 7 numbers!)	Signature	Second Day Initial
Laura J Blanton	Cook County	100 South Dixon Street	Gainesville, TX 76240	OS No 5/18w		
Ric Blevins	NETMWD	P.O. Box 955	Hughes Springs, TX 75656	OS 0008625	<i>Ric Blevins</i>	
Richard G Crabb	Ellis County	1201 N Highway 77, Suite 100	Waxahachie, TX 75165	OS No Show		
Stephen Harrison	Tarrant Regional Water District	140 FM 416	Tarrant, TX 75859	OS No Show		
Tommy Hensley	Ellis County	1201 N Highway 77, Suite 100	Waxahachie, TX 75165	OS 0028024	<i>Tommy Hensley</i>	<i>TH</i>
Fred Killingsworth	Gregg County	405 E Marshall Ave	Longview, TX 76501	OS No Show		
Chris Robinson	Tarrant Regional Water District	140 FM 416	Stretman, TX 75859	OS No Show		
Lee Thomas	NETMWD	P.O. Box 955	Hughes Springs, TX 75656	OS 0026217	<i>Lee Thomas</i>	

Figure C-18 Designated representatives attending the Analyzing Wastewater Treatment Systems course in Kaufman on June 17 & 18, 2010.

Appendix D: Evaluation form for assessing training events

An evaluation document was developed for collecting information about the participants and assessing the impact of the course. Assessment and evaluation can measure the overall quality of courses. They also provide valuable information regarding additional training needs. Both of these goals can be achieved through the use of an evaluation sheet that is completed by the audience before the class concludes.

This sample evaluation form has different types of questions that provide a method to assess the participant satisfaction as well as their knowledge gained and willingness to adopt best management practices discussed in this course. The purpose of various questions is discussed below.

Name (optional), Occupation, Years in the Industry, and State(s) where you work.

These questions provide supplementary demographic information regarding the participants in the course. You may see different responses based on their occupation, experience, and the state or region in which they practice. This information could also be used to divide the responses received for the remaining questions in the satisfaction survey. This demographic information will be important to identify trends in the industry over time and regionally.

1. What were your expectations for this course?

The course participants can express their interpretation of what was to be covered during this course. Responses to this question provide insight regarding the remainder of the responses provided on this evaluation. A person may be thoroughly disappointed in the course as presented because the impression of what was going to be covered does not match the actual course content.

2. How would you rate your presenter?

Outstanding **Very Good** **Good** **Fair** **Poor**

This section provides a means for course participants to describe their general impression of the presenter. Because the choices by the participants can be directly related to a numerical selection, the responses can be evaluated through a quantitative measure. The participants can indicate their relative satisfaction with the presenter.

3. How would you rate the course overall?

Outstanding **Very Good** **Good** **Fair** **Poor**

This section provides a means for course participants to describe their general impression of the course. Because the choices by the participants can be directly related to a

numerical selection, the responses can be evaluated through a quantitative measure. The participants can indicate their relative satisfaction with the components of the course.

4. I gained information through participation in this course? _____ yes _____ no

This question provides a quantitative evaluation of the number of participants indicating knowledge gained through participation in the course. This question will facilitate the ability to quickly determine number of people that were familiar with all of the topics.

**5. How many systems do you install annually? (First training event)
How many systems do you install/inspect annually? (Subsequent training event)**

This question provides a quantitative evaluation of the number of systems being installed by the OSSF professional. This question was modified after the first training event to add the term “inspected”. Therefore, an estimation of the number of systems inspected annually could be estimated. This question is targeting the maintenance providers and technicians attending the courses. The responses are not relevant to the designated representatives.

6. How many systems do you operate and maintain annually?

This question provides a quantitative evaluation of the number of systems being maintained by the OSSF professional. This question is targeting the maintenance providers and technicians attending the courses. The responses are not relevant to the designated representatives.

7. What are 1 or 2 things that you will do differently as a result of this training course?

The responses to this question assist you in determining if people are compelled to change actions as a result of participating in the course. It serves as a method to assess the willingness to change their actions in managing wastewater onsite.

8. Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event? (circle your response) Yes No

This question asks the practitioner if they feel the information will benefit them economically through participation in this training course. This question is not particularly relevant to the designated representative.

9. I would recommend this course to another wastewater professional? (circle your response) Yes No

This question focuses on the satisfaction of the course participant with the training course and provides a quantitative evaluation. Course participants will express their satisfaction in the course through a willingness to recommend the course to other practitioners. This question can be expressed as an approval rating of the course.

Knowledge gained assessment through Retrospective Post-then- Pre test questions

LEVEL OF UNDERSTANDING

Poor 1	Fair 2	Good 3	Excellent 4
-----------	-----------	-----------	----------------

What is your level of understanding of each of the following items?	Before the program				After the program			
Understanding of wastewater constituents	1	2	3	4	1	2	3	4
Understanding of hydraulic loading to commercial wastewater treatment systems	1	2	3	4	1	2	3	4

This section provides a quantitative evaluation of knowledge transfer through delivery of the course. The participants perform a self evaluation of their relative knowledge before and after participation in the course. This type of evaluation is critical to demonstrating a long-term value to the educational program. The relative gain in knowledge should be compared to the participant demographics (occupation and years of service) and the goals of the course. A senior level person may rate knowledge gained from an introductory course as zero. This would indicate that he or she was familiar with the information and it did not provide new information. However, the general comments provided by the participant may include statements such as “good refresher course that provided background information on concepts that we implement on a daily basis.” Even though the person did not express an explicit knowledge gained, he or she recognized the value of the course. Also, the participant’s response to question 8 can show relative value of the course.

Willingness to adopt best management practices?

This section is designed to gain information regarding the participant’s willingness to adopt the best management practices described during the training event. Course participants have a variety of reasons for not adopting a specific practice. However, if a particular best management practice is extremely critical to success of a wastewater treatment system, this data can indicate the willingness of participants to adopt the practice. If the participants are not willing to adopt the critical practice, the course delivery may not sufficiently demonstrate the value of implementing that particular practice. A revision to the delivery method may help convey the critical nature of implementing the best management practice.

Form D.1. Evaluation used to assess impact of training courses.

Course Evaluation
Analyzing Wastewater Treatment Systems Serving Residential and Commercial Facilities for High Strength and Hydraulic Loading
February 9 & 10, 2010; Lubbock, Texas

Name (optional): _____ Occupation: _____
Years in the Industry: _____ State(s) where you work: _____

1. What were your expectations for this course? _____

2. How would you rate your presenter?
_____ Outstanding _____ Very Good _____ Good _____ Fair _____ Poor

3. How would you rate the course overall?
_____ Outstanding _____ Very Good _____ Good _____ Fair _____ Poor

4. I gained information through participation in this course? _____ yes _____ no

5. How many systems do you install annually?
 0 1 to 5 5 to 15 15 to 25 25 to 35 35 to 50 50 to 75 Other

6. How many systems do you operate and maintain annually?
 0 1 to 25 25 to 50 50 to 100 100 to 150 150 to 200 200 to 300 Other

7. What are 1 or 2 things that you will do differently as a result of this training course?

8. Do you anticipate **benefiting economically** as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event? (circle your response) Yes No

9. I would **recommend** this course to another wastewater professional? (circle your response) Yes No

Please turn over this form to complete the remainder of this survey

For each of the items listed below, please circle the number that best reflects your level of understanding BEFORE the program (middle column) and the number that best reflects your level of understanding AFTER the program (right column).

LEVEL OF UNDERSTANDING

Poor **Fair** **Good** **Excellent**
1 **2** **3** **4**

What is your level of understanding of each of the following items?	Before the program				After the program			
	1	2	3	4	1	2	3	4
Wastewater constituents	1	2	3	4	1	2	3	4
Hydraulic loading to commercial wastewater treatment systems	1	2	3	4	1	2	3	4
Organic loading to commercial wastewater treatment systems	1	2	3	4	1	2	3	4
Organic loading rate to soil treatment areas	1	2	3	4	1	2	3	4
How to evaluate treatment train components to predict effluent quality	1	2	3	4	1	2	3	4
How residential management practices impact organic loading	1	2	3	4	1	2	3	4
How microscopic analysis assists in evaluating healthy microbial treatment conditions	1	2	3	4	1	2	3	4
How to incorporate flow equalization into treatment trains	1	2	3	4	1	2	3	4
How to analyze commercial wastewater treatment systems	1	2	3	4	1	2	3	4
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	1	2	3	4	1	2	3	4
Sampling practices for monitoring wastewater treatment systems	1	2	3	4	1	2	3	4

For each item listed below, please indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them.

Practice	Will <u>not</u> adopt	Undecided	Probably <u>will</u> adopt	Adopted already	Tried it before; discontinued application
Utilize evaluation forms to review residential systems					
Utilize evaluation forms to evaluate commercial systems					
Specify hydraulic loading rate for system components in the design					
Specify organic loading rate for system components in the design					
Specify operation and maintenance requirements for system components in the design					
Utilize flow equalization in systems with peak flows					

Appendix E: AWTS Course Evaluation – February 9 & 10, 2010; Lubbock, Texas

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in Lubbock, Texas on February 9 & 10, 2010. Five designated representatives completed the evaluation survey out of a total of five course participants for a 100% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- Leave the class with knowledge to properly design and size HSWW facilities.
- Basic understanding of commercial OSSF and High Strength Loading.
- To gain a better understanding of commercial systems.
- To really learn about more of what I expected.
- Exactly what was covered.

2. Assessment of participant's perception of the presenter's ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	4	1	0	0	0	5	4.8

3. Assessment of participant's perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	3	2	0	0	0	5	4.6

4. Assessment of the participant's perception of gaining information through participation in the course.

	Yes	No
I gained information through participation in this course?	4	0

5. Assessment of the number of systems installed annually by the course participant (a couple of participants marked through the word “installed” and replaced it with “inspected”).

How many systems do you install annually?	0	1 to 5	5 to 15	15 to 25
	0	0	0	1
	25 to 35	35 to 50	50 to 75	Other
	0	0	0	1

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

How many systems do you operate and maintain annually?	0	1 to 25	25 to 50	50 to 100
	1	0	0	0
	100 to 150	150 to 200	200 to 300	Other
	0	0	0	0

7. What are 1 or 2 things that you will do differently as a result of this training course?

- RE: Planning – Ask more questions/details.
- Increase my mindset of sewage strength. Use a checklist and better communication with owner and operator.
- Get it in writing; offer more than the most used option.
- Use checklist.
- Provide installers and homeowners with checklist and guidance info from text.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	3	2

9. Assessment of willingness to recommend the course to another wastewater professional.

I would recommend this course to another wastewater professional?	Yes	No
	5	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	0	3	2	0	5	2.4
Hydraulic loading to commercial wastewater treatment systems	0	4	1	0	5	2.2
Organic loading to commercial wastewater treatment systems	0	4	1	0	5	2.2
Organic loading rate to soil treatment areas	0	3	2	0	5	2.4
How to evaluate treatment train components to predict effluent quality	0	5	0	0	5	2.0
How residential management practices impact organic loading	0	4	1	0	5	2.2
How microscopic analysis assists in evaluating healthy microbial treatment conditions	1	3	1	0	5	2.0
How to incorporate flow equalization into treatment trains	0	4	1	0	5	2.2
How to analyze commercial wastewater treatment systems	1	3	1	0	5	2.0
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	4	1	0	5	2.2
Sampling practices for monitoring wastewater treatment systems	0	4	1	0	5	2.2

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	0	2	3	5	3.6
Hydraulic loading to commercial wastewater treatment systems	0	0	4	1	5	3.2
Organic loading to commercial wastewater treatment systems	0	0	4	1	5	3.2
Organic loading rate to soil treatment areas	0	0	3	2	5	3.4
How to evaluate treatment train components to predict effluent quality	0	0	4	1	5	3.2
How residential management practices impact organic loading	0	0	2	3	5	3.6
How microscopic analysis assists in evaluating healthy microbial treatment conditions	0	1	1	3	5	3.4
How to incorporate flow equalization into treatment trains	0	0	2	3	5	3.6
How to analyze commercial wastewater treatment systems	0	0	2	3	5	3.6
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	0	2	3	5	3.6
Sampling practices for monitoring wastewater treatment systems	0	0	2	3	5	3.6

Calculated percent knowledge gained

	% Knowledge Gain
Percent Knowledge Gained:	
Wastewater constituents	50.0
Hydraulic loading to commercial wastewater treatment systems	45.5
Organic loading to commercial wastewater treatment systems	45.5
Organic loading rate to soil treatment areas	41.7
How to evaluate treatment train components to predict effluent quality	60.0
How residential management practices impact organic loading	63.6
How microscopic analysis assists in evaluating healthy microbial treatment conditions	70.0
How to incorporate flow equalization into treatment trains	63.6
How to analyze commercial wastewater treatment systems	80.0
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	63.6
Sampling practices for monitoring wastewater treatment systems	63.6

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	5	5	100.00
Hydraulic loading to commercial wastewater treatment systems	5	5	100.00
Organic loading to commercial wastewater treatment systems	5	5	100.00
Organic loading rate to soil treatment areas	5	5	100.00
How to evaluate treatment train components to predict effluent quality	5	5	100.00
How residential management practices impact organic loading	4	5	80.00
How microscopic analysis assists in evaluating healthy microbial treatment conditions	5	5	100.00
How to incorporate flow equalization into treatment trains	5	5	100.00
How to analyze commercial wastewater treatment systems	5	5	100.00
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	5	5	100.00
Sampling practices for monitoring wastewater treatment systems	5	5	100.00

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	1	0	4	0	0	5
Utilize evaluation forms to evaluate commercial systems	0	0	5	0	0	5
Specify hydraulic loading rate for system components in the design	0	1	4	0	0	5
Specify organic loading rate for system components in the design	0	0	5	0	0	5
Specify operation and maintenance requirements for system components in the design	0	3	2	0	0	5
Utilize flow equalization in systems with peak flows	0	1	4	0	0	5

Appendix F: AWTS Course Evaluation – March 1 & 2, 2010; San Marcos, Texas

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in San Marcos, Texas on March 1 & 2, 2010. Thirty-eight designated representatives completed the evaluation survey out of a total of forty course participants for a 95% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- Update knowledge.
- Better understanding of wastewater flow in large facilities, and high strength wastewater.
- Gain C.E.U.'s for recertification.
- To learn new ways to analyze wastewater.
- Very informative – facilitator knowledgeable – good information – well prepared – concise.
- Very good.
- I expected that it would be informative.
- Course generally met my expectations.
- Refresher of what I had learned in the DR course and learning what new information was available.
- They were exceeded.
- To learn more about high strength waste water and how to solve potential problems.
- None – very uniformed in this aspect.
- Overview of high strength wastewater.
- To have a greater understanding of dealing with high strength wastewater.
- Expansion of general knowledge.
- Understand how to troubleshoot a failing commercial system.
- General class on OSSF.
- Learn more about how to treat/dispose of high strength waste water.
- Unknown quantity.
- Better understanding of how systems are supposed to be designed and perform.
- Growing a better understanding of the septic system.
- Learn.
- Acquire an overview of some advanced topics.
- Learn more about high strength systems. Also increase my overall performance of my IOB.

2. Assessment of participant's perception of the presenter's ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	22	14	2	0	0	38	4.5

3. Assessment of participant's perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	13	23	2	0	0	38	4.3

4. Assessment of the participant's perception of gaining information through participation in the course.

	Yes	No
I gained information through participation in this course?	36	1

5. Assessment of the number of systems installed/inspected annually by the course participant.

How many systems do you install/inspected annually?	0	1 to 5	5 to 15	15 to 25
	1	4	2	4
	25 to 35	35 to 50	50 to 75	Other
2	4	6	10	

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

How many systems do you operate and maintain annually?	0	1 to 25	25 to 50	50 to 100
	6	0	0	0
	100 to 150	150 to 200	200 to 300	Other
0	0	1	0	

7. What are 1 or 2 things that you will do differently as a result of this training course?
- Make sure owner is more involved.
 - Start learning.
 - No more than 6 hours at a time.
 - 50 minute class, 10 minute break.
 - More time dedicated to discussing with homeowners and business owners why performance should be addressed when trying to convince them why the minimums are probably not realistic, in regards to new and existing systems.
 - Is there any push to legislation to use performance as the minimum requirements as opposed to the current design minimums?
 - Look closer at performance of systems when reviewing before permitting.
 - Troubleshooting complaints on failing systems. I feel that I have a better understanding of what a homeowner/tenant might be doing to cause a system malfunction (either hard or soft).
 - Pay more attention and watch for elements involved in septic failure.
 - Question usage more thoroughly.
 - Will try to think more outside the box.
 - Employ new understanding in my direction of violations correction actions.
 - Suggest to upper management that owner of high strength waste generator system do check last.
 - Look at commercial operations differently.
 - Provide lunch? Honestly nothing different.
 - Work with owners to understand their impact on a system. Use sampling.
 - Use checklist with owner on use of septum – demand on septum.
 - Review submitted plans with a better understanding on what design aspects to look for.
 - Make sure tanks aren't installed backwards.
 - Best in-depth course attended regarding advanced design methods.
 - Question some designs and how they came up with the flows.
 - Monitor some systems to confirm designer perimeters.
 - Probe deeper in my investigative process.
 - Provide better communication with owners.
 - Review plans more thoroughly.
 - I often meet with developers/business owners to discuss possible centralized and decentralized ww solutions for their projects. This course has given me more information that I can share with them so that they will be more informed when making these engineering/business decisions.
 - I will have more knowledge and be able to recognize problems during design phase and operating phase.
 - Go back and analyze existing high BOD commercial systems to determine what we required and reviewed. Will be looking to incorporate surveys, performance data as conditions on future commercial permits.
 - Review the specific calculations with more effectiveness.
 - Promote more staff to attend this course.
 - Make sure I verify unique designs more closely with the help of other people.

- As always you did an outstanding job. Every course I've had with you has been a learning experience. Thank you.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	10	28

9. Assessment of willingness to recommend the course to another wastewater professional.

I would recommend this course to another wastewater professional?	Yes	No
	38	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	2	18	16	2	38	2.5
Hydraulic loading to commercial wastewater treatment systems	10	16	11	1	38	2.1
Organic loading to commercial wastewater treatment systems	12	16	8	2	38	2.0
Organic loading rate to soil treatment areas	8	16	12	2	38	2.2
How to evaluate treatment train components to predict effluent quality	11	18	8	1	38	2.0
How residential management practices impact organic loading	3	16	17	2	38	2.5
How microscopic analysis assists in evaluating healthy microbial treatment conditions	13	14	9	2	38	2.0
How to incorporate flow equalization into treatment trains	10	16	9	3	38	2.1
How to analyze commercial wastewater treatment systems	12	17	8	1	38	1.9
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	11	18	7	2	38	2.0
Sampling practices for monitoring wastewater treatment systems	13	14	9	2	38	2.0

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	1	21	16	38	3.4
Hydraulic loading to commercial wastewater treatment systems	0	2	23	13	38	3.3
Organic loading to commercial wastewater treatment systems	0	3	21	14	38	3.3
Organic loading rate to soil treatment areas	0	4	24	10	38	3.2
How to evaluate treatment train components to predict effluent quality	0	6	20	12	38	3.2
How residential management practices impact organic loading	0	2	15	21	38	3.5
How microscopic analysis assists in evaluating healthy microbial treatment conditions	0	6	18	14	38	3.2
How to incorporate flow equalization into treatment trains	0	4	21	13	38	3.2
How to analyze commercial wastewater treatment systems	0	4	23	11	38	3.2
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	2	25	11	38	3.2
Sampling practices for monitoring wastewater treatment systems	0	5	22	11	38	3.2

Calculated percent knowledge gained

Percent Knowledge Gained:	% Knowledge Gain
Wastewater constituents	37.2
Hydraulic loading to commercial wastewater treatment systems	58.2
Organic loading to commercial wastewater treatment systems	64.5
Organic loading rate to soil treatment areas	42.9
How to evaluate treatment train components to predict effluent quality	60.0
How residential management practices impact organic loading	41.5
How microscopic analysis assists in evaluating healthy microbial treatment conditions	60.5
How to incorporate flow equalization into treatment trains	51.9
How to analyze commercial wastewater treatment systems	63.5
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	61.8
Sampling practices for monitoring wastewater treatment systems	57.9

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	27	38	71.05
Hydraulic loading to commercial wastewater treatment systems	34	38	89.47
Organic loading to commercial wastewater treatment systems	35	38	92.11
Organic loading rate to soil treatment areas	30	38	78.95
How to evaluate treatment train components to predict effluent quality	34	38	89.47
How residential management practices impact organic loading	27	38	71.05
How microscopic analysis assists in evaluating healthy microbial treatment conditions	30	38	78.95
How to incorporate flow equalization into treatment trains	31	38	81.58
How to analyze commercial wastewater treatment systems	34	38	89.47
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	34	38	89.47
Sampling practices for monitoring wastewater treatment systems	33	38	86.84

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	2	12	17	1	0	32
Utilize evaluation forms to evaluate commercial systems	2	12	18	0	0	32
Specify hydraulic loading rate for system components in the design	1	15	7	8	0	31
Specify organic loading rate for system components in the design	1	15	9	7	0	32
Specify operation and maintenance requirements for system components in the design	1	13	10	7	0	31
Utilize flow equalization in systems with peak flows	1	13	12	7	0	33

Appendix G: AWTS Course Evaluation – March 30 & 31, 2010; Granbury, Texas

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in Granbury, Texas on March 30 & 31, 2010. Nineteen designated representatives completed the evaluation survey out of a total of twenty course participants for a 95% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- To learn more about analyzing wastewater treatment.
- A general review of HSWW and update on current laws.
- To learn more about AWTS.
- Better understanding of methods for dealing with HSWW.
- Increase my knowledge of High Strength Waste Water (commercial).
- Learn lots more knowledge on this topic.
- I was hoping to gain knowledge of large on-site systems... which I did.
- To better understand concepts of High Strength Wastewater. The TCEQ needs to implement more regulations on commercial OSSF's.
- To better understand issues related to High Strength Waste Water.
- To learn new advancements in septic technology.
- Information about septic systems.
- Learn more about treatment of high strength waste and their components.
- Be able to give guidance to designers. Be able to better evaluate designs and malfunctions.
- How to troubleshoot High Strength Waste Water problems and get a better understanding of the newer designs.
- To learn more about it.

2. Assessment of participant's perception of the presenter's ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	10	7	2	0	0	19	4.4

3. Assessment of participant's perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	7	10	2	0	0	19	4.3

4. Assessment of the participant's perception of gaining information through participation in the course.

	Yes	No
I gained information through participation in this course?	18	1

5. Assessment of the number of systems installed/inspected annually by the course participant.

	0	1 to 5	5 to 15	15 to 25
How many systems do you install/inspect annually?	2	0	0	2
	25 to 35	35 to 50	50 to 75	Other
	1	2	4	6

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

	0	1 to 25	25 to 50	50 to 100
How many systems do you operate and maintain annually?	0	1	0	0
	100 to 150	150 to 200	200 to 300	Other
	0	0	0	0

7. What are 1 or 2 things that you will do differently as a result of this training course?
- I will be able to inspect and monitor installation/existing septic systems more effectively.
 - I plan to include much of the questioning approval to homeowners to allow us to better and more accurately determine ww needs.
 - We are in the process of rewriting OSSF order and I plan to push my colleagues more to look at installing more performance type levels.
 - Integrate/incorporate questionnaire during permitting process. Work closely with owner and maintenance to assist in troubleshooting and encourage preventative measures.
 - Encourage designers and installer (plus owners) to build-in safety factors.
 - Review designs using the check lists provided in the manual.
 - Look more closely at loading and flow equalization.
 - Abandon the garbage disposal.
 - Not let water run.
 - We will have a better understanding and tools “evaluation forms” to help us with the regulation and planning designs of commercial systems.
 - This will help me to better understand issues brought to me by both my inspectors and installers.
 - Ask more questions about facility operation.
 - Look into more testing.
 - Watch for shady installation techniques.
 - Share the knowledge gained.
 - Look at all the variables that may affect a systems operation.
 - Stress the need to design above the minimum volume or strength.
 - Make owner aware of what he is getting.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	5	13

9. Assessment of willingness to recommend the course to another wastewater professional.

I would recommend this course to another wastewater professional?	Yes	No
	19	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	1	9	7	1	18	2.4
Hydraulic loading to commercial wastewater treatment systems	2	9	7	1	19	2.4
Organic loading to commercial wastewater treatment systems	2	12	5	0	19	2.2
Organic loading rate to soil treatment areas	2	10	7	0	19	2.3
How to evaluate treatment train components to predict effluent quality	7	6	5	1	19	2.0
How residential management practices impact organic loading	2	10	6	1	19	2.3
How microscopic analysis assists in evaluating healthy microbial treatment conditions	8	4	6	1	19	2.0
How to incorporate flow equalization into treatment trains	3	11	4	1	19	2.2
How to analyze commercial wastewater treatment systems	10	7	1	1	19	1.6
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	9	7	2	1	19	1.7
Sampling practices for monitoring wastewater treatment systems	8	6	3	2	19	1.9

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	1	11	6	18	3.3
Hydraulic loading to commercial wastewater treatment systems	0	1	9	9	19	3.4
Organic loading to commercial wastewater treatment systems	0	2	9	8	19	3.3
Organic loading rate to soil treatment areas	0	1	9	9	19	3.4
How to evaluate treatment train components to predict effluent quality	0	3	12	4	19	3.1
How residential management practices impact organic loading	0	1	11	7	19	3.3
How microscopic analysis assists in evaluating healthy microbial treatment conditions	0	3	9	7	19	3.2
How to incorporate flow equalization into treatment trains	0	2	12	5	19	3.2
How to analyze commercial wastewater treatment systems	0	4	13	2	19	2.9
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	6	11	2	19	2.8
Sampling practices for monitoring wastewater treatment systems	0	5	9	5	19	3.0

Calculated percent knowledge gained

Percent Knowledge Gained:	% Knowledge Gain
Wastewater constituents	34.1
Hydraulic loading to commercial wastewater treatment systems	44.4
Organic loading to commercial wastewater treatment systems	53.7
Organic loading rate to soil treatment areas	51.2
How to evaluate treatment train components to predict effluent quality	52.6
How residential management practices impact organic loading	43.2
How microscopic analysis assists in evaluating healthy microbial treatment conditions	60.5
How to incorporate flow equalization into treatment trains	46.3
How to analyze commercial wastewater treatment systems	77.4
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	60.6
Sampling practices for monitoring wastewater treatment systems	54.1

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	14	18	77.78
Hydraulic loading to commercial wastewater treatment systems	18	19	94.74
Organic loading to commercial wastewater treatment systems	19	19	100.00
Organic loading rate to soil treatment areas	17	19	89.47
How to evaluate treatment train components to predict effluent quality	15	19	78.95
How residential management practices impact organic loading	16	19	84.21
How microscopic analysis assists in evaluating healthy microbial treatment conditions	15	19	78.95
How to incorporate flow equalization into treatment trains	19	19	100.00
How to analyze commercial wastewater treatment systems	18	19	94.74
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	17	19	89.47
Sampling practices for monitoring wastewater treatment systems	14	19	73.68

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	0	7	9	1	0	17
Utilize evaluation forms to evaluate commercial systems	0	7	9	1	0	17
Specify hydraulic loading rate for system components in the design	0	5	10	2	0	17
Specify organic loading rate for system components in the design	0	5	9	3	0	17
Specify operation and maintenance requirements for system components in the design	0	5	9	3	0	17
Utilize flow equalization in systems with peak flows	0	5	10	2	0	17

Appendix H: AWTS Course Evaluation – April 20 & 21, 2010; Bandera, Texas

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in Bandera, Texas on April 20 & 21, 2010. Twenty-three designated representatives completed the evaluation survey out of a total of twenty-three course participants for a 100% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- To learn more about OSSF trouble shooting.
- Education.
- Get the latest information in dealing with systems.
- First class course.
- Gain information I can use as a regulator to protect water quality.
- My expectations were to increase my understanding and knowledge of high strength waste water.
- I was expecting exactly what I got! Thanks.
- Learn new material.
- Gain knowledge and ce hours.
- Good job! High increased knowledge and increased ability to do hob in efficient manner.
- New information about wastewater treatment systems.
- Better understanding of variables and design alternatives of systems processing high strength waste.
- The course was even more than I expected in that it covered testing procedure.
- Discuss high strength wastewater.
- To be more educated on analyzing BOD in residential and commercial OSSFs.

2. Assessment of participant's perception of the presenter's ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	18	5	0	0	0	23	4.8

3. Assessment of participant's perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	11	12	0	0	0	23	4.5

4. Assessment of the participant's perception of gaining information through participation in the course.

	Yes	No
I gained information through participation in this course?	22	0

5. Assessment of the number of systems installed/inspected annually by the course participant.

	0	1 to 5	5 to 15	15 to 25
How many systems do you install/inspect annually?	0	2	3	3
	25 to 35	35 to 50	50 to 75	Other
	2	2	1	10

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

	0	1 to 25	25 to 50	50 to 100
How many systems do you operate and maintain annually?	1	1	0	0
	100 to 150	150 to 200	200 to 300	Other
	0	0	0	0

7. What are 1 or 2 things that you will do differently as a result of this training course?

- Utilize evaluation forms.
- Sizing.
- Study each permit more closely.
- Pay closer attention to designs for restaurants and specialty systems.
- Realize the need to expand size of system parameters.
- Be more assertive in seeing the design I approve have real treatment potential as opposed to just moving effluent through the “drain.”
- This will change my entire approach to OSSF evaluation and my view of loading rates!!
- Use the forms.
- Ask more questions.
- Tell my wife to stop using chemical cleaners.
- Increase consumer education.
- Appreciate organic loading!
- It will change the way I look at restaurant systems.
- Communicate performance based design operation and maintenance.
- Evaluate designs/malfunctions from a performance perspective instead of only a perceptive perspective.
- Work more closely with business owner – management practice.
- Use the questionnaires – but will implement SOP.
- Encourage installers and designers to go to this course.
- Encourage cycle counters and others methods of determinate flow.
- Consider the source more carefully and check to see if the designer did also.
- Check for lids being sealed on tanks; try to better educate owners of O&M on their systems; maybe put it in our ordinance that checklist required as part of planning materials.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	12	10

9. Assessment of willingness to recommend the course to another wastewater professional.

I would recommend this course to another wastewater professional?	Yes	No
	23	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	4	10	6	0	20	2.1
Hydraulic loading to commercial wastewater treatment systems	8	7	6	0	21	1.9
Organic loading to commercial wastewater treatment systems	7	11	3	0	21	1.8
Organic loading rate to soil treatment areas	7	8	6	0	21	2.0
How to evaluate treatment train components to predict effluent quality	11	8	2	0	21	1.6
How residential management practices impact organic loading	8	6	7	0	21	2.0
How microscopic analysis assists in evaluating healthy microbial treatment conditions	10	7	4	0	21	1.7
How to incorporate flow equalization into treatment trains	5	10	6	0	21	2.0
How to analyze commercial wastewater treatment systems	12	8	1	0	21	1.5
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	12	7	1	0	20	1.5
Sampling practices for monitoring wastewater treatment systems	9	9	3	0	21	1.7

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	1	15	4	20	3.2
Hydraulic loading to commercial wastewater treatment systems	0	2	11	8	21	3.3
Organic loading to commercial wastewater treatment systems	0	1	11	9	21	3.4
Organic loading rate to soil treatment areas	0	1	11	9	21	3.4
How to evaluate treatment train components to predict effluent quality	0	5	10	6	21	3.0
How residential management practices impact organic loading	0	2	9	10	21	3.4
How microscopic analysis assists in evaluating healthy microbial treatment conditions	1	4	10	6	21	3.0
How to incorporate flow equalization into treatment trains	0	4	9	8	21	3.2
How to analyze commercial wastewater treatment systems	0	7	11	3	21	2.8
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	6	10	4	20	2.9
Sampling practices for monitoring wastewater treatment systems	0	2	13	5	20	3.2

Calculated percent knowledge gained

	% Knowledge Gain
Percent Knowledge Gained:	
Wastewater constituents	50.0
Hydraulic loading to commercial wastewater treatment systems	72.5
Organic loading to commercial wastewater treatment systems	86.8
Organic loading rate to soil treatment areas	73.2
How to evaluate treatment train components to predict effluent quality	93.9
How residential management practices impact organic loading	73.2
How microscopic analysis assists in evaluating healthy microbial treatment conditions	75.0
How to incorporate flow equalization into treatment trains	55.8
How to analyze commercial wastewater treatment systems	90.3
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	100.0
Sampling practices for monitoring wastewater treatment systems	83.8

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	18	20	90.00
Hydraulic loading to commercial wastewater treatment systems	19	21	90.48
Organic loading to commercial wastewater treatment systems	20	21	95.24
Organic loading rate to soil treatment areas	19	21	90.48
How to evaluate treatment train components to predict effluent quality	20	21	95.24
How residential management practices impact organic loading	18	21	85.71
How microscopic analysis assists in evaluating healthy microbial treatment conditions	17	21	80.95
How to incorporate flow equalization into treatment trains	18	21	85.71
How to analyze commercial wastewater treatment systems	20	21	95.24
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	19	20	95.00
Sampling practices for monitoring wastewater treatment systems	19	20	95.00

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	0	5	14	2	0	21
Utilize evaluation forms to evaluate commercial systems	0	6	13	1	0	20
Specify hydraulic loading rate for system components in the design	1	7	10	2	0	20
Specify organic loading rate for system components in the design	1	7	9	3	0	20
Specify operation and maintenance requirements for system components in the design	1	6	10	4	0	21
Utilize flow equalization in systems with peak flows	0	7	12	2	0	21

Appendix I: AWTS Course Evaluation – April 29 & 30, 2010; Midland, Texas

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in Midland, Texas on April 29 & 30, 2010. Eleven designated representatives completed the evaluation survey out of a total of twelve course participants for a 92% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- Information on evaluating and permitting commercial applications.
- Learn more about septic facilities and receive detailed information.
- To learn about loading on residential and commercial systems and developing better OSSF's.
- More than what I expected.
- To learn and understand more wastewater treatments.
- Obtaining more advanced ww design info.
- Develop a better understanding of commercial OSSF's.
- Learn the difference in septic system sizing because of waste water concentration. I realized this was an issue and now have the back up and troubleshooting failing systems.
- Solutions to problems.
- Knowledge of wastewater systems.
- Better than expected.

2. Assessment of participant's perception of the presenter's ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	8	3	0	0	0	11	4.7

3. Assessment of participant's perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	7	4	0	0	0	11	4.6

4. Assessment of the participant's perception of gaining information through participation in the course.

	Yes	No
I gained information through participation in this course?	11	0

5. Assessment of the number of systems installed/inspected annually by the course participant.

	0	1 to 5	5 to 15	15 to 25
How many systems do you install/inspect annually?	0	0	2	1
	25 to 35	35 to 50	50 to 75	Other
	1	0	3	3

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

	0	1 to 25	25 to 50	50 to 100
How many systems do you operate and maintain annually?	2	0	0	0
	100 to 150	150 to 200	200 to 300	Other
	0	1	0	1

7. What are 1 or 2 things that you will do differently as a result of this training course?
- Evaluating commercial permit applications.
 - Will take into consideration the BOD loading rates and number of persons living in a residence when reviewing an application for a septic permit.
 - Will try to implement using the checklists for permitting OSSF.
 - I have more confidence in my knowledge of understanding the design of commercial systems.
 - Not have so material presented.
 - Pay more attention to grease traps and apply formulas by asking more questions.
 - Try and find ways to educate the public on designing systems bigger to accommodate expansion rather than minimum and have problems in the long run.
 - Educate homeowners and installers to install OSSF with more capacity than the minimum standards.
 - To use checklists to evaluate OSSF (commercial).
 - Implement use of surveys.
 - Utilize evaluation forms.
 - Take BOD in account when sizing a commercial system.
 - Treat my system differently.
 - Try to use manual to convince people a change in sizing is necessary.
 - Can trouble shoot with more confidence.
 - Stop and slow down and make sure of what is going into the system.
 - Sizing of commercial operations.
 - How easy it can be to do home or commercial inspection.
 - What other situations that can or problems that can cause a need for septic system work.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	7	4

9. Assessment of willingness to recommend the course to course to another wastewater

I would recommend this course to another wastewater professional?	Yes	No
	11	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	1	8	2	0	11	2.1
Hydraulic loading to commercial wastewater treatment systems	3	6	1	1	11	2.0
Organic loading to commercial wastewater treatment systems	5	6	0	0	11	1.5
Organic loading rate to soil treatment areas	4	7	0	0	11	1.6
How to evaluate treatment train components to predict effluent quality	3	7	1	0	11	1.8
How residential management practices impact organic loading	3	6	2	0	11	1.9
How microscopic analysis assists in evaluating healthy microbial treatment conditions	3	6	0	1	10	1.9
How to incorporate flow equalization into treatment trains	7	3	1	0	11	1.5
How to analyze commercial wastewater treatment systems	7	4	0	0	11	1.4
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	5	6	0	0	11	1.5
Sampling practices for monitoring wastewater treatment systems	7	1	3	0	11	1.6

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	0	8	3	11	3.3
Hydraulic loading to commercial wastewater treatment systems	0	1	6	4	11	3.3
Organic loading to commercial wastewater treatment systems	0	2	4	4	10	3.2
Organic loading rate to soil treatment areas	0	2	5	3	10	3.1
How to evaluate treatment train components to predict effluent quality	0	2	5	3	10	3.1
How residential management practices impact organic loading	0	1	5	4	10	3.3
How microscopic analysis assists in evaluating healthy microbial treatment conditions	0	0	6	4	10	3.4
How to incorporate flow equalization into treatment trains	0	3	6	2	11	2.9
How to analyze commercial wastewater treatment systems	0	2	7	2	11	3.0
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	1	8	2	11	3.1
Sampling practices for monitoring wastewater treatment systems	0	2	5	4	11	3.2

Calculated percent knowledge gained

	% Knowledge Gain
Percent Knowledge Gained:	
Wastewater constituents	56.5
Hydraulic loading to commercial wastewater treatment systems	63.6
Organic loading to commercial wastewater treatment systems	107.1
Organic loading rate to soil treatment areas	89.4
How to evaluate treatment train components to predict effluent quality	70.5
How residential management practices impact organic loading	72.9
How microscopic analysis assists in evaluating healthy microbial treatment conditions	78.9
How to incorporate flow equalization into treatment trains	100.0
How to analyze commercial wastewater treatment systems	120.0
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	100.0
Sampling practices for monitoring wastewater treatment systems	94.4

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	11	11	100.00
Hydraulic loading to commercial wastewater treatment systems	10	11	90.91
Organic loading to commercial wastewater treatment systems	10	10	100.00
Organic loading rate to soil treatment areas	10	10	100.00
How to evaluate treatment train components to predict effluent quality	10	10	100.00
How residential management practices impact organic loading	10	10	100.00
How microscopic analysis assists in evaluating healthy microbial treatment conditions	9	10	90.00
How to incorporate flow equalization into treatment trains	11	11	100.00
How to analyze commercial wastewater treatment systems	11	11	100.00
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	11	11	100.00
Sampling practices for monitoring wastewater treatment systems	11	11	100.00

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	0	3	7	0	0	10
Utilize evaluation forms to evaluate commercial systems	0	3	7	0	0	10
Specify hydraulic loading rate for system components in the design	0	2	7	1	0	10
Specify organic loading rate for system components in the design	0	3	7	0	0	10
Specify operation and maintenance requirements for system components in the design	0	3	6	1	0	10
Utilize flow equalization in systems with peak flows	0	5	4	1	0	10

Appendix J: AWTS Course Evaluation – May 24 & 25, 2010; Conroe, Texas

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in Conroe, Texas on May 24 & 25, 2010. Twenty designated representatives completed the evaluation survey out of a total of twenty course participants for a 100% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- Need more brakes.
- CEU's.
- Further knowledge of OSSF.
- To learn.
- B.O.D.
- To gain knowledge of wastewater strength.
- To learn more on how to troubleshoot problem systems.
- Gaining more knowledge of the wastewater industry.
- To learn about high strength wastewater.
- Better understanding of system design on residential and commercial businesses.
- To receive further education and information in the performance of my job.
- Gain more knowledge in the OSSF industry.
- More in-depth knowledge of high strength wastewater and homeowner stuff.
- To learn a lot because Dr. Lesikar was teaching the course.
- Gain more insight on analyzing wastewater treatment.

2. Assessment of participant's perception of the presenter's ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	6	10	4	0	0	20	4.1

3. Assessment of participant's perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	5	10	5	0	0	20	4.0

4. Assessment of the participant's perception of gaining information through participation in the course.

I gained information through participation in this course?	Yes	No
	20	0

5. Assessment of the number of systems installed annually by the course participant (a couple of participants marked through the word "installed" and replaced it with "inspected").

How many systems do you install annually?	0	1 to 5	5 to 15	15 to 25
	1	1	1	1
	25 to 35	35 to 50	50 to 75	Other
	1	1	2	8

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

How many systems do you operate and maintain annually?	0	1 to 25	25 to 50	50 to 100
	2	2	0	0
	100 to 150	150 to 200	200 to 300	Other
	0	0	0	0

7. What are 1 or 2 things that you will do differently as a result of this training course?

- Educate owners of responsibility for engaging what goes down the drain and when.
- Use evaluation forms with owners.
- Be more comfortable discussing systems and their problems.
- Use paperwork in the process.
- Be more in tune to wastewater strength as opposed to gallons per day.
- Utilize the forms in troubleshooting as well as implementing them in new installation.
- Pay more attention to designs being submitted for approvals/permits.
- Look at things differently.
- Better review of on-site designs for commercial systems.
- Better assist with troubleshooting for malfunctioning systems.
- Tie owner to system.
- Look at a larger picture in wastewater treatment for both residential and commercial.
- Look closer at how to keep food establishment into compliance.
- Get more rest the night before.
- As a septic designer I will provide for my clients the questionnaire provided in this course.
- Pay closer attention to hydraulic and organic loading to wastewater system and soil treatment areas.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	4	15

9. Assessment of willingness to recommend the course to another wastewater professional.

I would recommend this course to another wastewater professional?	Yes	No
	20	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	2	10	8	0	20	2.3
Hydraulic loading to commercial wastewater treatment systems	5	7	7	1	20	2.2
Organic loading to commercial wastewater treatment systems	5	9	6	0	20	2.1
Organic loading rate to soil treatment areas	2	13	5	0	20	2.2
How to evaluate treatment train components to predict effluent quality	8	6	5	0	19	1.8
How residential management practices impact organic loading	1	9	9	1	20	2.5
How microscopic analysis assists in evaluating healthy microbial treatment conditions	8	6	6	0	20	1.9
How to incorporate flow equalization into treatment trains	6	7	6	1	20	2.1
How to analyze commercial wastewater treatment systems	7	7	5	1	20	2.0
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	7	8	4	1	20	2.0
Sampling practices for monitoring wastewater treatment systems	7	7	6	0	20	2.0

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	0	15	4	19	3.2
Hydraulic loading to commercial wastewater treatment systems	0	2	9	8	19	3.3
Organic loading to commercial wastewater treatment systems	0	2	9	8	19	3.3
Organic loading rate to soil treatment areas	0	1	9	9	19	3.4
How to evaluate treatment train components to predict effluent quality	0	3	11	5	19	3.1
How residential management practices impact organic loading	0	1	11	7	19	3.3
How microscopic analysis assists in evaluating healthy microbial treatment conditions	0	5	10	4	19	2.9
How to incorporate flow equalization into treatment trains	0	2	10	7	19	3.3
How to analyze commercial wastewater treatment systems	0	5	8	6	19	3.1
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	5	8	5	18	3.0
Sampling practices for monitoring wastewater treatment systems	0	3	11	5	19	3.1

Calculated percent knowledge gained

Percent Knowledge Gained:	% Knowledge Gain
Wastewater constituents	39.6
Hydraulic loading to commercial wastewater treatment systems	50.7
Organic loading to commercial wastewater treatment systems	61.7
Organic loading rate to soil treatment areas	59.1
How to evaluate treatment train components to predict effluent quality	68.6
How residential management practices impact organic loading	32.6
How microscopic analysis assists in evaluating healthy microbial treatment conditions	55.1
How to incorporate flow equalization into treatment trains	55.4
How to analyze commercial wastewater treatment systems	52.6
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	53.8
Sampling practices for monitoring wastewater treatment systems	59.2

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	14	20	70.00
Hydraulic loading to commercial wastewater treatment systems	16	20	80.00
Organic loading to commercial wastewater treatment systems	17	20	85.00
Organic loading rate to soil treatment areas	17	20	85.00
How to evaluate treatment train components to predict effluent quality	17	19	89.47
How residential management practices impact organic loading	14	20	70.00
How microscopic analysis assists in evaluating healthy microbial treatment conditions	17	20	85.00
How to incorporate flow equalization into treatment trains	17	20	85.00
How to analyze commercial wastewater treatment systems	16	20	80.00
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	17	19	89.47
Sampling practices for monitoring wastewater treatment systems	16	20	80.00

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	0	1	15	2	0	18
Utilize evaluation forms to evaluate commercial systems	0	1	13	3	0	17
Specify hydraulic loading rate for system components in the design	0	4	10	4	0	18
Specify organic loading rate for system components in the design	0	4	10	4	0	18
Specify operation and maintenance requirements for system components in the design	0	3	12	3	0	18
Utilize flow equalization in systems with peak flows	0	5	10	3	0	18

**Appendix K: AWTS Course Evaluation – June 17 & 18, 2010;
Kaufman, Texas**

This data was collected through an evaluation survey distributed following the Analyzing Wastewater Treatment Systems course conducted in Kaufman, Texas on June 17 & 18, 2010. Three designated representatives completed the evaluation survey out of a total of three course participants for a 100% response rate to the survey. Not all participants responded to each individual question.

1. What were your expectations for this course?

- Review commercial issues and problem solving.
- Learn information on analyzing wastewater loads.

2. Assessment of participant’s perception of the presenter’s ability to cover the material.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate your presenter?	2	1	0	0	0	3	4.7

3. Assessment of participant’s perception of the course.

	Outstanding	Very Good	Good	Fair	Poor	N	Avg.
How would you rate the course overall?	2	1	0	0	0	3	4.7

4. Assessment of the participant’s perception of gaining information through participation in the course.

	Yes	No
I gained information through participation in this course?	3	0

5. Assessment of the number of systems install/inspect annually by the course participant.

	0	1 to 5	5 to 15	15 to 25
How many systems do you install/inspect annually?	0	0	0	0
	25 to 35	35 to 50	50 to 75	Other
	0	1	1	0

6. Question aimed at understanding how many systems are maintained by the participants in the course (Not relevant for designated representatives, but included on general evaluation).

How many systems do you operate and maintain annually?	0	1 to 25	25 to 50	50 to 100
	0	0	0	0
	100 to 150	150 to 200	200 to 300	Other
	0	0	0	0

7. What are 1 or 2 things that you will do differently as a result of this training course?

- Site specific designs.
- Be more aware of design minimums.
- Look at relation between cash flow and water usage for sizing treatment units.
- Have designer pay more attention to HSW BOD.

8. Assessment of financial value gained through participation in the course.

Do you anticipate benefiting economically as a direct result of what you learned through participation in this Analyzing Wastewater Treatment Systems training event?	Yes	No
	0	2

9. Assessment of willingness to recommend the course to course to another wastewater

I would recommend this course to another wastewater professional?	Yes	No
	3	0

10. Assessment of knowledge gained through participation in the course.

Self assessed knowledge before course

What is your level of understanding of each of the following items?	Poor			Excellent		
Before the Program:	1	2	3	4	N	Average
Wastewater constituents	0	2	1	0	3	2.3
Hydraulic loading to commercial wastewater treatment systems	1	2	0	0	3	1.7
Organic loading to commercial wastewater treatment systems	1	2	0	0	3	1.7
Organic loading rate to soil treatment areas	0	2	1	0	3	2.3
How to evaluate treatment train components to predict effluent quality	0	1	2	0	3	2.7
How residential management practices impact organic loading	0	1	2	0	3	2.7
How microscopic analysis assists in evaluating healthy microbial treatment conditions	1	2	0	0	3	1.7
How to incorporate flow equalization into treatment trains	1	1	1	0	3	2.0
How to analyze commercial wastewater treatment systems	1	2	0	0	3	1.7
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	1	2	0	0	3	1.7
Sampling practices for monitoring wastewater treatment systems	0	2	0	1	3	2.7

Self-assessed knowledge after course

What is your level of understanding of each of the following items?	Poor			Excellent		
After the program:	1	2	3	4	N	Average
Wastewater constituents	0	0	2	1	3	3.3
Hydraulic loading to commercial wastewater treatment systems	0	0	2	1	3	3.3
Organic loading to commercial wastewater treatment systems	0	0	1	2	3	3.7
Organic loading rate to soil treatment areas	0	0	1	2	3	3.7
How to evaluate treatment train components to predict effluent quality	0	0	1	2	3	3.7
How residential management practices impact organic loading	0	0	1	2	3	3.7
How microscopic analysis assists in evaluating healthy microbial treatment conditions	0	0	1	2	3	3.7
How to incorporate flow equalization into treatment trains	0	0	2	1	3	3.3
How to analyze commercial wastewater treatment systems	0	0	2	1	3	3.3
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	0	0	2	1	3	3.3
Sampling practices for monitoring wastewater treatment systems	0	0	1	2	3	3.7

Calculated percent knowledge gained

	% Knowledge Gain
Percent Knowledge Gained:	
Wastewater constituents	42.9
Hydraulic loading to commercial wastewater treatment systems	100.0
Organic loading to commercial wastewater treatment systems	120.0
Organic loading rate to soil treatment areas	57.1
How to evaluate treatment train components to predict effluent quality	37.5
How residential management practices impact organic loading	37.5
How microscopic analysis assists in evaluating healthy microbial treatment conditions	120.0
How to incorporate flow equalization into treatment trains	66.7
How to analyze commercial wastewater treatment systems	100.0
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	100.0
Sampling practices for monitoring wastewater treatment systems	37.5

Percent of participant indicating knowledge gained on specific topics

Percent reporting an increase in knowledge:	# of Increases	N	% Knowledge Increased
Wastewater constituents	2	3	66.67
Hydraulic loading to commercial wastewater treatment systems	3	3	100.00
Organic loading to commercial wastewater treatment systems	3	3	100.00
Organic loading rate to soil treatment areas	3	3	100.00
How to evaluate treatment train components to predict effluent quality	2	3	66.67
How residential management practices impact organic loading	2	3	66.67
How microscopic analysis assists in evaluating healthy microbial treatment conditions	3	3	100.00
How to incorporate flow equalization into treatment trains	2	3	66.67
How to analyze commercial wastewater treatment systems	3	3	100.00
How to evaluate commercial management practices to determine wastewater hydraulic and organic loading rates.	3	3	100.00
Sampling practices for monitoring wastewater treatment systems	2	3	66.67

11. Assessment of willingness to adopt practices as a result of participation in the course.

Indicate your intentions regarding adoption of the following practice(s), or indicate whether you have already adopted them:	Will not adopt	Undecided	Probably will adopt	Adopted already	Tried it before; discontinued application	N
Utilize evaluation forms to review residential systems	0	0	1	0	0	1
Utilize evaluation forms to evaluate commercial systems	0	0	1	0	0	1
Specify hydraulic loading rate for system components in the design	0	1	0	0	0	1
Specify organic loading rate for system components in the design	0	1	0	0	0	1
Specify operation and maintenance requirements for system components in the design	0	0	1	0	0	1
Utilize flow equalization in systems with peak flows	0	1	0	0	0	1