



# REQUEST FOR PROPOSALS (Sealed Bids)

## Installation of On-Site Sewage Facilities in the Attoyac Bayou Watershed

**RFP Number:** CWA-2016-01  
**Date Issued:** January 14, 2016  
**Date Due:** February 8, 2016 at 10:00 AM  
Sealed Bids will be opened at this time at the  
ANRA Central Office, 210 E. Lufkin Ave., Lufkin, TX

This project is financed by a Clean Water Act Section 319 grant from the U.S. Environmental Protection Agency (USEPA) through the Texas Commission on Environmental Quality (TCEQ).

**PREPARED IN COOPERATION WITH THE  
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement to Texas Commission on Environmental Quality. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does the EPA endorse trade names or recommend the use of commercial products mentioned in this document.

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## Public Notice Inviting Bids

The Angelina & Neches River Authority (ANRA) hereby gives notice that sealed unit price Bids will be received for the **INSTALLATION OF AEROBIC ON-SITE SEWAGE FACILITIES** in the portions of Rusk, Shelby, Nacogdoches, and San Augustine Counties that lie within the Attoyac Bayou Watershed.

ANRA will open Bids on Monday, February 8, 2016 at 10:00 AM at its Central Office at 210 E. Lufkin Avenue, Lufkin, TX. After the official Bid closing time, the Bids will be publically opened and read aloud. Bid awards will be made by the ANRA Board of Directors at their regular quarterly meeting in February 2016.

A **MANDATORY Pre-Bid Conference** is a prerequisite to bidding. Bids **WILL NOT** be accepted from any firm not in attendance at the pre-Bid conference.

Bid documents are available at the ANRA Central Office, on the ANRA website ([www.anra.org](http://www.anra.org)), by email request to Brian Sims, Environmental Division Manager ([bsims@anra.org](mailto:bsims@anra.org)), or by faxing a request for a Bid packet to 936-632-2564.

**This project is financed by a Clean Water Act Section 319 grant from the U.S. Environmental Protection Agency through the Texas Commission on Environmental Quality.**

The Angelina & Neches River Authority reserves the right to accept the bid that best serves the needs of ANRA, to reject any and/or all bids, and to waive minor specifications to best serve ANRA.

## Important Dates

|                                    |   |
|------------------------------------|---|
| <b>RFP Issue Date:</b>             | January 14, 2016  |
| <b>Pre-Bid Meeting (Mandatory)</b> | Thursday, January 28, 2016 at 5:30 PM<br>Friday, January 29, 2016 at 10:00 AM<br><br>Two separate Pre-Bid Meetings have been arranged to accommodate potential bidders' work schedules. Bidders can attend either meeting. The content presented at each meeting will be the same.<br><br><b>Attendance at one of the Pre-Bid Meetings is mandatory to submit a bid for this project.</b> |
| <b>Proposal Due Date:</b>          | Monday, February 8, 2016 at 10:00 AM  |
| <b>Tentative Award Date:</b>       | Tuesday, February 9, 2016 at 10:00 AM   |
| <b>Project Completion:</b>         | August 31, 2016   |

## Submittal Requirements

**Responses to the RFP are due by 10:00 AM on Monday, February 8, 2016.** One (1) unbound hard copy of the proposal response is required. Submission must be delivered in a **sealed envelope** labeled on the exterior with the following:

**Bidder/Firm Name:** \_\_\_\_\_  
**RFP Name:** Installation of OSSFs in the Attoyac Bayou Watershed  
**RFP Number:** CWA-2016-01  
**Date Issued:** January 14, 2016  
**Date Due:** February 8, 2016 at 10:00 AM

Submissions are to be delivered to:

Angelina & Neches River Authority  
ATTN: Brian Sims  
210 E. Lufkin Ave.  
Lufkin, TX 75901

**\*\*\* LATE PROPOSALS WILL NOT BE CONSIDERED \*\*\***

## Contact Information

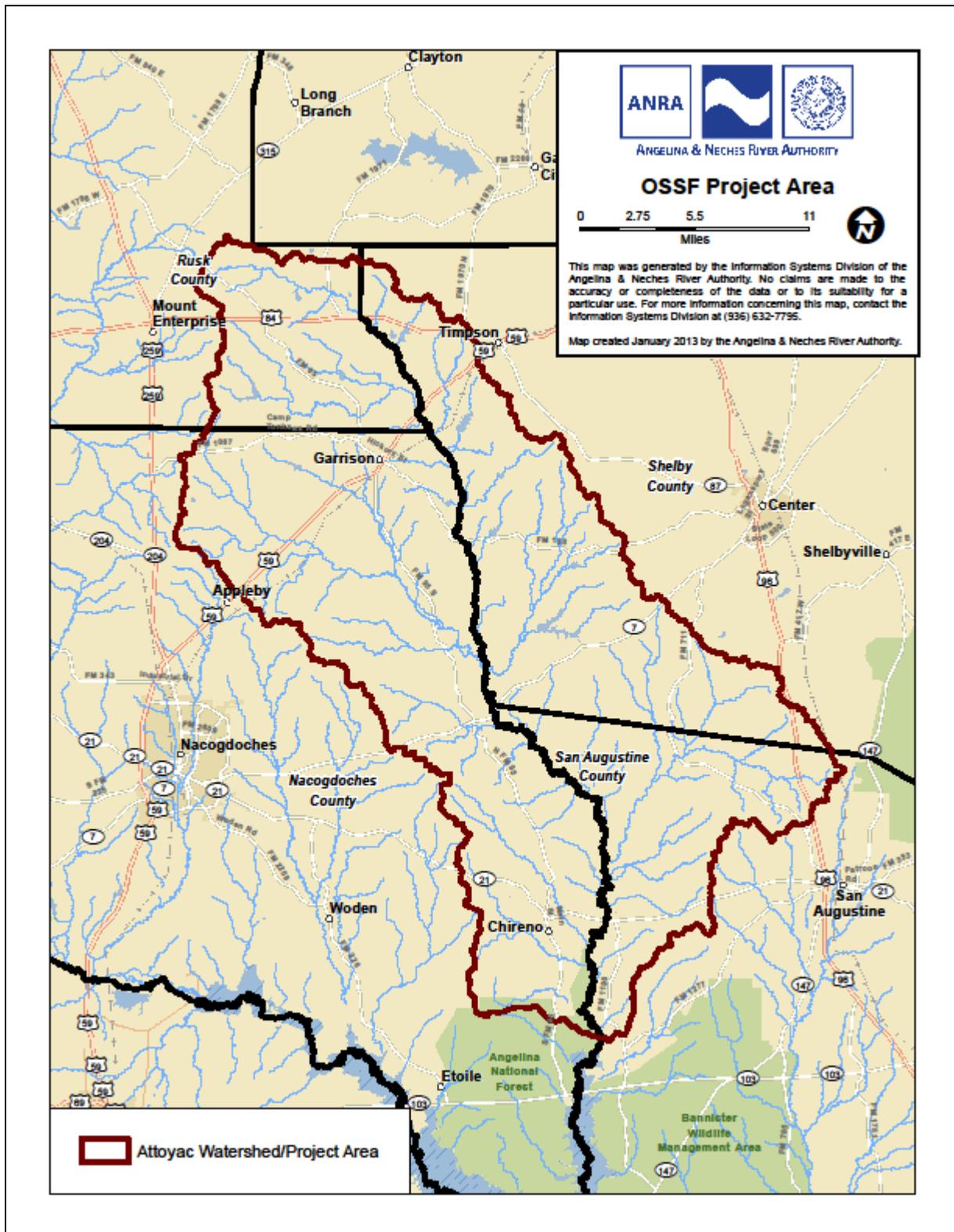
For questions concerning this project, please contact:

Brian Sims  
Environmental Division Manager  
Angelina & Neches River Authority  
210 E. Lufkin Ave.  
Lufkin, TX 75901  
Email: [bsims@anra.org](mailto:bsims@anra.org)  
Phone: 936-633-7527  
Fax: 936-632-2564

## Project Background

The Attoyac Bayou is impaired for elevated levels of *E. coli* bacteria. *The Attoyac Bayou Watershed Protection Plan* identifies failing or non-existent On-Site Sewage Facilities (OSSFs) as one of the leading potential sources of the bacterial source contributors in the watershed. Through a Clean Water Act (CWA) Section 319 grant from the Texas Commission on Environmental Quality (TCEQ), the Angelina and Neches River Authority (ANRA) is attempting to address this potential source of bacteria by replacing or installing up to 23 OSSFs within the Attoyac Bayou watershed.

## Map of Project Area



## Scope of Work

The Angelina & Neches River Authority seeks **sealed bid** proposals from Licensed Installers to provide labor and materials to install On-Site Sewage Facilities (OSSFs) in the portions of Rusk, Shelby, Nacogdoches, and San Augustine counties that lie within the Attoyac Bayou Watershed (see Map of Project Area on page 5).

ANRA has contracted with a Registered Sanitarian to design systems to be installed as part of this project. Aerobic OSSF designs for this project will be completed by David Arnold, R.S. #3382. Every effort will be made to design the systems as consistently as possible. All installations will be for single family residences, with plant sizes typically being either 500 GPD or 750 GPD. In some instances, dual systems may be installed on one property to deal with flow requirements. Two example designs are included in the RFP. Installers will be provided with overview maps, site photographs, and system designs prior to installation.

As of the date of this request, all available systems have not been awarded to homeowners. Therefore, designs are not available for all systems to be installed as a part of this grant. Please refer to the provided examples as to the types and sizing of systems to be expected. In some cases, systems are being installed at locations where there is not a system in place. In the majority of circumstances, the installation is to replace a failing conventional septic system, so it will be necessary to pump, fill, and abandon the existing system.

As of the date of this Request for Proposal, eight (8) designs have been completed. The remaining designs are not included as examples in this packet. However, they are available for review. It is anticipated that between 20 -23 systems will be installed as part of this project prior to August 31, 2016. The total number of systems installed is dependent upon unit costs and the total available grant funding for this project.

One (1) successful bidder will install all on-site sewage facilities for this project. Minority owned, women owned, and locally owned businesses are encouraged to apply.

## Licensing Requirements

The Installer must be licensed by the Texas Commission on Environmental Quality (TCEQ) as an **Installer Class II (OS II)**. For installations in San Augustine County, the Installer must be registered with ANRA.

## Rules and Regulations

Work to be performed under this project must be performed according to the following Rules and Regulations:

- Health & Safety Code, Chapter 366 On-Site Sewage Disposal Systems
- Title 30, TAC Chapter 285 On-Site Sewage Facilities
- Title 30, TAC Chapter 30, Subchapters A and G Occupational Licenses and Registrations
- Order Adopting Rules of the Angelina & Neches River Authority for On-Site Sewage Facilities

## Insurance Requirements

The Installer must maintain a policy of liability insurance in the minimum amount of \$1,000,000 per occurrence, listing ANRA as the certificate holder/beneficiary, to cover any claims arising out of the performance of its services under this Agreement. The Installer shall provide ANRA with a copy of its certificate of liability insurance at contract execution.

## Federal Conditions and Forms

This project is funded, in whole or in part, by a federal grant from the U.S. Environmental Protection Agency through the Texas Commission on Environmental Quality. This project is funded through the Federal Clean Water Act (CWA) Section 319 grant program to address nonpoint sources (NPS) of pollution.

The successful bidder for this project must agree to follow the Federal Conditions for this grant, including completing any necessary federal forms. A copy of the Federal Conditions and Forms document is included as an attachment (Attachment #1) to this Request for Proposal. A copy of the Disadvantage Business Enterprise (DBE) Program Subcontractor Participation Form is also attached (Attachment #2).

**These documents are not required to be included in the sealed Bid proposal, but will be required prior to contract execution if your firm's bid is accepted.**

## ANRA Standard Form of Agreement

A copy of ANRA's Standard Form of Agreement will be provided at the Pre-Bid Meeting.

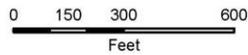
## ANRA General Contract Conditions

A copy of ANRA's General Contract Conditions will be provided at the Pre-Bid Meeting.

## Example System Design #1



### OSSF Grant Applications

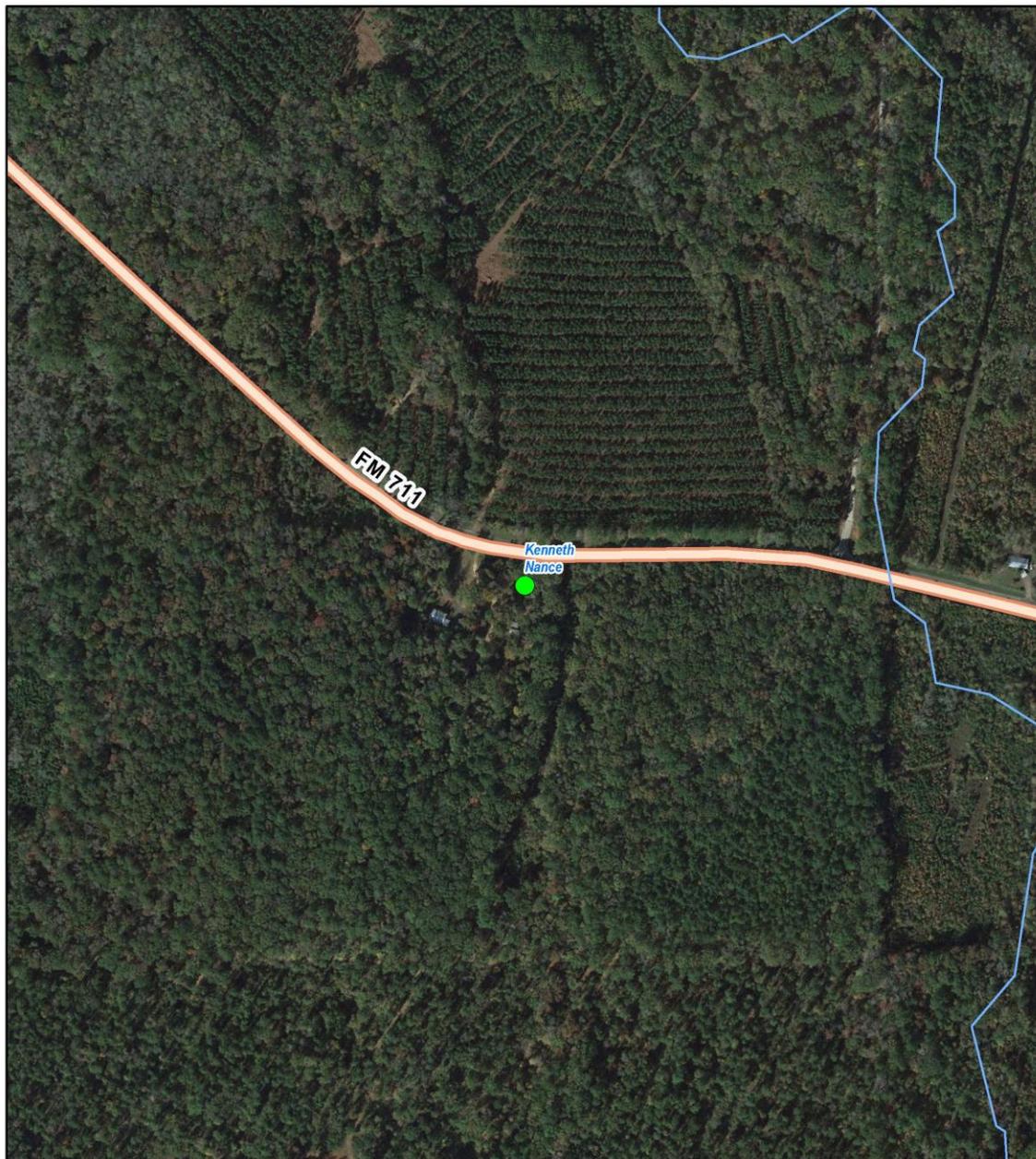


### Kenneth Nance

Rt 3 Box 123, San Augustine, TX 75972

936-275-0243

Lat/Long: 31.587556, -94.174



This map was generated by the Information Systems Division of the Angelina & Neches River Authority. No claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information concerning this map, contact the Information Systems Division at (936) 632-7795.

Map created January 2016 by the Angelina & Neches River Authority.





4283 SOUTHWOOD DRIVE  
LUFKIN, TX 75904  
(936) 632-0585

JN80716  
January 14, 2016

**ON-SITE SEWAGE FACILITY DESIGN**

**Owner:** Kenneth Nance  
**Address:** Rt. 3 Box 123  
San Augustine TX 75972  
**County:** San Augustine  
**Designer:** David Arnold, RS # 3382  
**Installer:** TCEQ Licensed Installer II (TBA-request for proposal)

**PROJECT DESCRIPTION AND LOCATION:**

Aerobic System Design for a single-family residence located on identified 5.0 acre tract in the G. Anderson Survey, A-47. The property is in San Augustine County. (See attached map)

**DESIGN CRITERIA:**

**Water Source:** Public  
**Type of Dwelling:** Residential (Singlewide)  
**No. Of Bedrooms:** 2  
**No. Of Residents:** 1  
**Estimated Daily Flow:** 180 Gallons per Day (w/low flow fixtures)

**SPRAYFIELD DESIGN:**

**Land Disposal Application Rate:** 0.041 Gallons/Sq. Ft. /Day  
**Area Required:** 4390.25 Sq. Ft.  
**Area Designed:** 7693.00 Sq. Ft.  
**Overlap:** 0.00 Sq. Ft.

**AEROBIC SYSTEM & COMPONENTS REQUIRED:**

**Treatment Plant Manufacturer:** TCEQ Approved System  
**Plant Sizing:** 2bdrm <2501 Sq.Ft. = 360 GPD  
**Model Number:** 500 GPD Aerobic System (TBA)  
**Pump Tank Capacity:** 500-Gallon (minimum)  
**Trash Tank Capacity:** 325-Gallon (minimum)  
**Effluent Pump:** ½ HP Submersible or Equivalent  
**Disinfection:** Approved Liquid Chlorinator  
**Alarms:** Audible & Visible High Water Alarm  
**Effluent Pump Timer Requirement:** optional/20' setback maintained  
**Final Disposal:** Surface Irrigation  
(2) Rainbird Maxi-Paw sprinklers with # 10 Low Angle Nozzle or Equivalent

**VARIANCE REQUEST:**  
None



JN80516  
January 14, 2016

**DESIGN NOTE:**

Property lines shown are based on owner/owner representative information only. Slight adjustments to the spray head locations may be required because of vegetative obstructions. Setback distances must be maintained where applicable. (See Site Design Note)

**CALCULATIONS:**

1. SINGLE FAMILY RESIDENCE  
2 BEDROOM HOME=180GPD

**TOTAL = 180GAL/DAY**

180 gal/day / .041 = 4390.25 SQ.FT. REQUIRED

35' x35' x 3.14 =3846.50 SQ.FT. /PER SPRINKLER HEAD

Overlap=0.00 SQ.FT.  
0'x0'x.7854/2=0.00'

**HEAD #1 (35' RADIUS) 360 DEGREE ROTATION = 3846.50 SQ. FT.**  
**HEAD #2 (35' RADIUS) 360 DEGREE ROTATION = 3846.50 SQ. FT.**

**TOTAL DESIGNED = 7693.00 SQ.FT.**

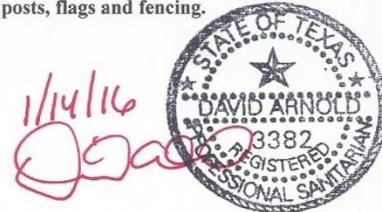
The information contained herein is to serve as design documentation for the installation of an aerobic sewer system with surface irrigation.

This aerobic system is to be installed and maintained in accordance with all state and local on-site sewage facility regulations. Upon commencement of construction, minor design changes may be required due to physical constraints at the job site. Any variance request or major construction change deemed necessary at the time of construction will require notification by the installer to the designer and the local regulatory agency. The installer shall obtain approval for these changes by the regulating agency.

The specifications used in this design were based on TCEQ On-Site Sewage Facility Regulations. Any attempt to modify this aerobic system design to allow for the treatment of waters other than domestic waste or to exceed the design capacity of this system with increased hydraulic loading will require re-evaluation by the local regulatory agency. A reasonable attempt has been made to accurately depict the location of the residence, property lines, outbuildings, underground utilities, sewer line connections, and proposed realty improvements.

This designer does not warrant the materials, installation, or proper operation of this aerobic system for any period of time if installed by a representative of a company other than D&S Environmental Services.

This designer is not responsible for identifying, locating and/or marking boundary lines for any property owner or property owner representative. Any boundary lines represented herein are based on owner information and any existing boundary markings such as pins, posts, flags and fencing.





Installation of On-Site Sewage Facilities in the Attoyac Bayou Watershed

RPF# CWA-2016-01

SITE EVALUATION FORM

Job Number 80116

DATE: 1/21/16 SITE VISIT @ 1:30 PM

HOME/BUSINESS OWNER KENNETH NANCE  
 SUBDIVISION: \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_ BLOCK \_\_\_\_\_  
 SURVEY: G. ANDERSON SURVEY ABSTRACT 47  
 STREET ADDRESS RT 3 BOX 123 SAN AUGUSTINE COWM  
 ACREAGE/LOT SIZE 5 ACRE TRACT

TOPOGRAPHY

SLOPE: FLAT: (UNDER 2%) \_\_\_\_\_ SLIGHT: (UNDER 6%)  SEVERE: (OVER 30%) \_\_\_\_\_  
 VEGETATION: GRASS/BRUSH: \_\_\_\_\_ LIGHTLY WOODED:  HEAVILY WOODED:  PARTIAL  
 SITE DRAINAGE: \_\_\_\_\_ POOR  ADEQUATE \_\_\_\_\_ GOOD \_\_\_\_\_ OTHER \_\_\_\_\_

FLOOD PLAIN

Property is located:  
 OUTSIDE THE 100 YEAR FLOOD PLAIN   
 PARTIALLY IN THE 100 YEAR FLOOD PLAIN \_\_\_\_\_  
 IN THE 100 YEAR FLOOD PLAIN \_\_\_\_\_  
 IN 100 YEAR FLOOD PLAIN AND FLOODWAY \_\_\_\_\_

WATER SUPPLY

PUBLIC  COMMUNITY \_\_\_\_\_ PRIVATE \_\_\_\_\_  
 SIZE OF WELL \_\_\_\_\_ FEET YEAR DRILLED \_\_\_\_\_ DRILLER: \_\_\_\_\_  
 DEPTH OF WELL \_\_\_\_\_ FEET

- ALL WELL REQUIRED DISTANCES MUST BE MAINTAINED
- IF NEIGHBORING WELLS EXIST THEY MUST BE SHOWN ON THE DESIGN

WASTEWATER USAGE RATE

TYPE OF FACILITY Residential USAGE RATE 180 GPD

SOIL ANALYSIS

| X | SOIL TEXTURE   | B <sub>1</sub> | B <sub>2</sub> SOIL CLASS | LONG TERM LOADING RATE |
|---|--|----------------|---------------------------|------------------------|
|   | COURSE SAND/GRAVEL   |                | Ia                        | >.50                   |
|   | SAND/LOAM SAND   |                | Ib                        | 0.38                   |
| x | SANDY/LOAM/LOAM  | 0"-14"         | 0"-14" II                 | 0.25                   |
| x | SANDY CLAY<br>LOAM/SANDY CLAY/CLAY<br>LOAM/SILTY CLAY/LOAM/<br>SILTY LOAM/SILT | 14"-20"        | 14"-20" III               | 0.20                   |
| x | CLAY/SILTY CLAY  | 20"+           | 20"+ IV                   | 0.10                   |

INDICATION OF SEASONAL WATER TABLE \_\_\_\_\_ YES  NO \_\_\_\_\_ DEPTH \_\_\_\_\_

NOTE: Subsurface horizons with colors of red, yellow and brown generally indicate good soil aeration and drainage throughout the year. Subsurface horizons that are in colors of gray, olive or blackish colors indicate poor aeration and soil drainage. Any soil profile that has the grayish colors indicative of high water tables within 36 inches of the surface or has ground water visible in the test bore less than 48 inches below the ground surface shall be deemed unsuitable for conventional subsurface disposal due to internal drainage.

IS THE SOIL SUITABLE FOR A CONVENTIONAL SYSTEM? \_\_\_\_\_ YES  NO

I, David Arnold, a Registered Sanitarian and Licensed Site Evaluator, did personally conduct the evaluation on

G. ANDERSON SURVEY A-47 ADDRESS/LEGAL DESCRIPTION

I certify these results are true and correct for the property evaluated.

1/21/16 Date

[Signature] Signature of Site Evaluator

SE # OS0029868

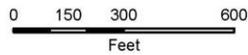
D&S Environmental Service  
936/632-058

SITEEVAL

## Example System Design #2



### OSSF Grant Applications

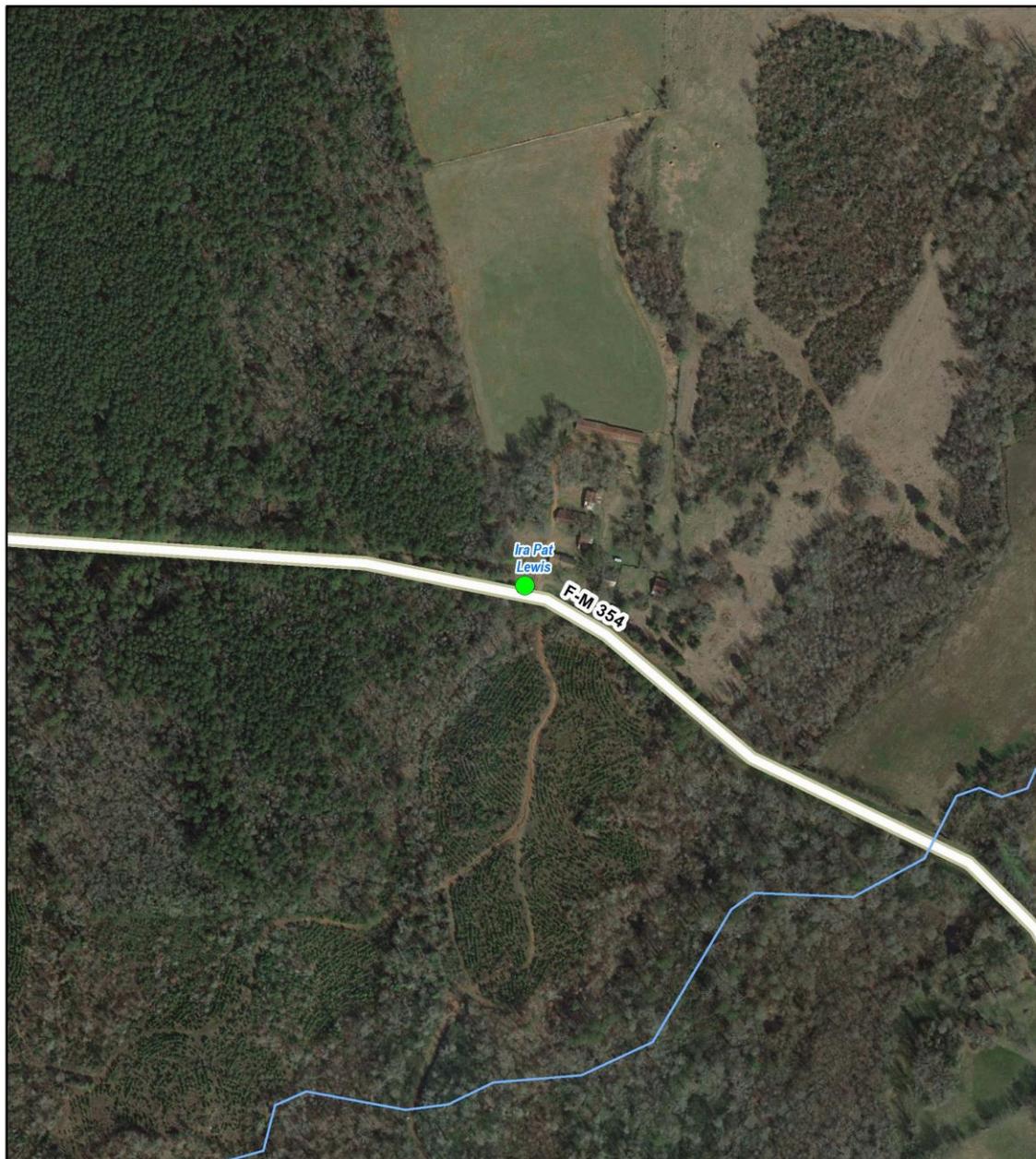


### Ira Pat Lewis

3839 FM 354, San Augustine, TX 75972

936-275-2040

Lat/Long: 31.552162, -94.267



This map was generated by the Information Systems Division of the Angelina & Neches River Authority. No claims are made to the accuracy or completeness of the data or to its suitability for a particular use. For more information concerning this map, contact the Information Systems Division at (936) 632-7795.

Map created January 2016 by the Angelina & Neches River Authority.





4283 SOUTHWOOD DRIVE  
LUFKIN, TX 75904  
(936) 632-0585

JN80516  
January 14, 2016

**ON-SITE SEWAGE FACILITY DESIGN**

**Owner:** Ira Pat Lewis  
**Address:** 3839 FM 354  
San Augustine TX 75972  
**County:** San Augustine  
**Designer:** David Arnold, RS # 3382  
**Installer:** TCEQ Licensed Installer II (TBA-request for proposal)

**PROJECT DESCRIPTION AND LOCATION:**

Aerobic System Design for a single-family residence located on identified 10.0 acre tract in the Samuel Steadham Survey, A-250. The property is in San Augustine County. (See attached map)

**DESIGN CRITERIA:**

**Water Source:** Public  
**Type of Dwelling:** Residential (Wood frame w/concrete foundation)  
**No. Of Bedrooms:** 4  
**No. Of Residents:** 2  
**Estimated Daily Flow:** 300 Gallons per Day (w/low flow fixtures)

**SPRAYFIELD DESIGN:**

**Land Disposal Application Rate:** 0.041 Gallons/Sq. Ft. /Day  
**Area Required:** 7317.08 Sq. Ft.  
**Area Designed:** 7457.30 Sq. Ft.  
**Overlap:** 392.70 Sq. Ft.

**AEROBIC SYSTEM & COMPONENTS REQUIRED:**

**Treatment Plant Manufacturer:** TCEQ Approved System  
**Plant Sizing:** 4bdm <2501 Sq.Ft. = 480 GPD  
**Model Number:** 500 GPD Aerobic System (TBA)  
**Pump Tank Capacity:** 500-Gallon (minimum)  
**Trash Tank Capacity:** 325-Gallon (minimum)  
**Effluent Pump:** ½ HP Submersible or Equivalent  
**Disinfection:** Approved Liquid Chlorinator  
**Alarms:** Audible & Visible High Water Alarm  
**Effluent Pump Timer Requirement:** optional/20' setback maintained  
**Final Disposal:** Surface Irrigation  
(3) Rainbird Maxi-Paw sprinklers with # 10 Low Angle Nozzle or Equivalent

**VARIANCE REQUEST:**  
None



JN80516  
January 14, 2016

**DESIGN NOTE:**

Property lines shown are based on owner/owner representative information only. Slight adjustments to the spray head locations may be required because of vegetative obstructions. Setback distances must be maintained where applicable. (See Site Design Note)

**CALCULATIONS:**

1. SINGLE FAMILY RESIDENCE  
4 BEDROOM HOME=300GPD

**TOTAL = 300GAL/DAY**

300 gal/day / .041 = 7317.08 SQ.FT. REQUIRED

30' x30' x 3.14 =2826.00 SQ.FT. /PER SPRINKLER HEAD

40' x40' x 3.14 =5024.00 SQ.FT. /PER SPRINKLER HEAD

Overlap=392.70 SQ.FT.

20'x50'x.7854/2=392.70'

HEAD #1 (40' RADIUS) 180 DEGREE ROTATION = 2512.00 SQ. FT.

HEAD #2 (40' RADIUS) 180 DEGREE ROTATION = 2512.00 SQ. FT.

HEAD #3 (30' RADIUS) 360 DEGREE ROTATION = 2826.00 SQ.FT.

**TOTAL DESIGNED = 7457.30 SQ.FT.**

The information contained herein is to serve as design documentation for the installation of an aerobic sewer system with surface irrigation.

This aerobic system is to be installed and maintained in accordance with all state and local on-site sewage facility regulations. Upon commencement of construction, minor design changes may be required due to physical constraints at the job site. Any variance request or major construction change deemed necessary at the time of construction will require notification by the installer to the designer and the local regulatory agency. The installer shall obtain approval for these changes by the regulating agency.

The specifications used in this design were based on TCEQ On-Site Sewage Facility Regulations. Any attempt to modify this aerobic system design to allow for the treatment of waters other than domestic waste or to exceed the design capacity of this system with increased hydraulic loading will require re-evaluation by the local regulatory agency. A reasonable attempt has been made to accurately depict the location of the residence, property lines, outbuildings, underground utilities, sewer line connections, and proposed realty improvements.

This designer does not warrant the materials, installation, or proper operation of this aerobic system for any period of time if installed by a representative of a company other than D&S Environmental Services.

This designer is not responsible for identifying, locating and/or marking boundary lines for any property owner or property owner representative. Any boundary lines represented herein are based on owner information and any existing boundary markings such as pins, posts, flags and fencing.

1/14/16  
  


- SITE DESIGN**
- IEN PAT LEWIS
  - RT 3 Box 249
  - SAN AUGUSTINE, TX 75972
  - PHYSICAL - 3839 FM 354
  - SANUEL STEADHAM SUEVER A-250
  - SAN AUGUSTINE COUNTY
  - SCALE: 1" = 50'

SJN: 80516

**SYSTEM COMPONENTS:**

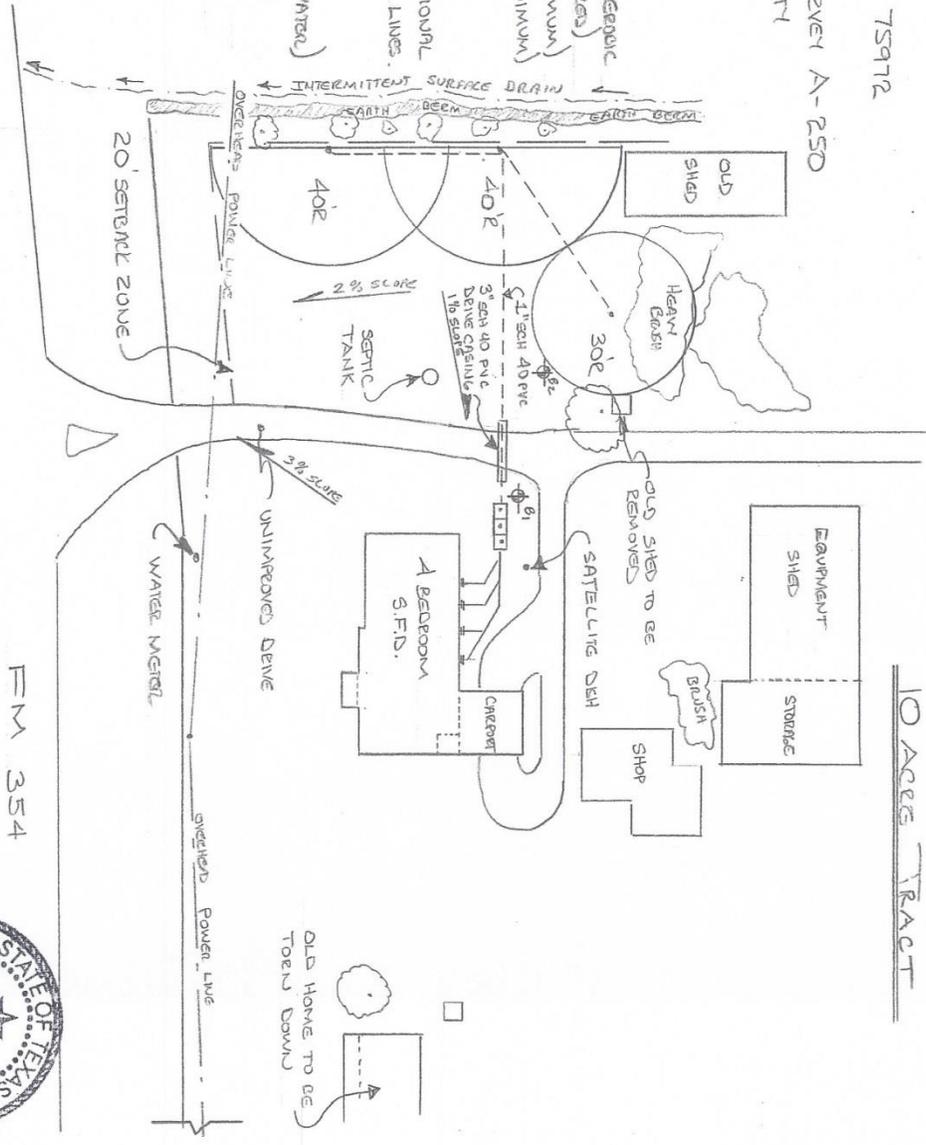
- TREAT APPROX 500 GPD PERIODIC SYSTEM (TBA) (REPAIRS REQUIRED)
- 325 GALLON TREAT TANK (MINIMUM)
- 500 GALLON PUMP TANK (MINIMUM)
- APPROVED DISINFECTION - LIQUID CHLORINATION REQUIRED.
- EFFLUENT PUMP - TIMER OPTIONAL W/20' SETBACK ON PROPER LINES.
- APPROVED SPLITTER HEADS + ASSOCIATED PIPING (PURGE COLOR - GAGES - RECLAIMERS WATER)
- ALL ELECTRICAL COMPONENTS SHALL COMPLY W/NEC.

**DESIGN NOTE:**

EXISTING SEPTIC TANK SHALL BE PUMPED & CLOSED OUT IN ACCORDANCE TO STATE & LOCAL GUIDELINES. PROTECTIVE LINES SHOULD ALSO BE MAINTAINED AS NOTED HEREIN. SETBACKS SHALL BE MAINTAINED AS NOTED HEREIN.

FM 354

1/14/16



10 ACRES TRACT

Installation of On-Site Sewage Facilities in the Attoyac Bayou Watershed

RPF# CWA-2016-01

SITE EVALUATION FORM

DATE: 1/12/16 @ 11:40 AM SITE VISIT Job Number \_\_\_\_\_

HOME/BUSINESS OWNER IRA PAT LEWIS  
 SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_ BLOCK \_\_\_\_\_  
 SURVEY: SAMUEL STEADHAM SURVEY ABSTRACT 250  
 STREET ADDRESS 3839 FM 354 SAW AUGUSTINE TX 75972  
 ACREAGE/LOT SIZE 10 ACRES TRACT

TOPOGRAPHY

SLOPE  
 FLAT: (UNDER 2%) \_\_\_\_\_ SLIGHT: (UNDER 6%)  SEVERE: (OVER 30%) \_\_\_\_\_  
 VEGETATION  
 GRASS/BRUSH:  LIGHTLY WOODED:  HEAVILY WOODED: \_\_\_\_\_  
 SITE DRAINAGE: \_\_\_\_\_ POOR  ADEQUATE \_\_\_\_\_ GOOD \_\_\_\_\_ OTHER \_\_\_\_\_

FLOOD PLAIN

Property is located:  
 OUTSIDE THE 100 YEAR FLOOD PLAIN   
 PARTIALLY IN THE 100 YEAR FLOOD PLAIN \_\_\_\_\_  
 IN THE 100 YEAR FLOOD PLAIN \_\_\_\_\_  
 IN 100 YEAR FLOOD PLAIN AND FLOODWAY \_\_\_\_\_

WATER SUPPLY

PUBLIC  COMMUNITY \_\_\_\_\_ PRIVATE \_\_\_\_\_  
 SIZE OF WELL \_\_\_\_\_ FEET YEAR DRILLED \_\_\_\_\_ DRILLER: \_\_\_\_\_  
 DEPTH OF WELL \_\_\_\_\_ FEET

- ALL WELL REQUIRED DISTANCES MUST BE MAINTAINED
- IF NEIGHBORING WELLS EXIST THEY MUST BE SHOWN ON THE DESIGN

TYPE OF FACILITY Residential 4 Bm WASTEWATER USAGE RATE  
 USAGE RATE 300 GPD

SOIL ANALYSIS

| X | SOIL TEXTURE   | B <sub>1</sub> | B <sub>2</sub> | SOIL CLASS | LONG TERM LOADING RATE |
|---|--|----------------|----------------|------------|------------------------|
|   | COURSE SAND/GRAVEL   |                |                | Ia         | >.50                   |
|   | SAND/LOAM SAND   |                |                | Ib         | 0.38                   |
|   | SANDY/LOAM/LOAM  |                |                | II         | 0.25                   |
| X | SANDY CLAY<br>LOAM/SANDY CLAY/CLAY<br>LOAM/SILTY CLAY/LOAM/<br>SILTY LOAM/SILT | 0"-4"          | 0"-4"          | III        | 0.20                   |
| X | CLAY/SILTY CLAY  | 4"+            | 4"+            | IV         | 0.10                   |

INDICATION OF SEASONAL WATER TABLE \_\_\_\_\_ YES  NO  
Red clay shallow at this site DEPTH \_\_\_\_\_

NOTE: Subsurface horizons with colors of red, yellow and brown generally indicate good soil aeration and drainage throughout the year. Subsurface horizons that are in colors of gray, olive or blackish colors indicate poor aeration and soil drainage. Any soil profile that has the grayish colors indicative of high water tables within 36 inches of the surface or has ground water visible in the test bore less than 48 inches below the ground surface shall be deemed unsuitable for conventional subsurface disposal due to internal drainage.

IS THE SOIL SUITABLE FOR A CONVENTIONAL SYSTEM? \_\_\_\_\_ YES  NO

I, David Arnold, a Registered Sanitarian and Licensed Site Evaluator, did personally conduct the evaluation on  
3839 FM 354 Saw Augustine TX 75972 ADDRESS/LEGAL DESCRIPTION

I certify these results are true and correct for the property evaluated.

1/14/16 Date

[Signature] Signature of Site Evaluator

SE # OS0029868

D&S Environmental Service  
 936/632-058

SITEEVAL

## Instructions to Bidders

Please include the following completed forms in your sealed bid proposal:

- Bid Proposal Cover Page, with signature
- Pricing Proposal – Item Detail Costs, including Base Costs and Add On Costs
- List of Subcontractors (if applicable)
- Questionnaire

Please include the following documents in your sealed bid proposal:

- Copy of Installer Class II (OS II) license from the Texas Commission on Environmental Quality
- ANRA OSSF Professionals Registration Form. The form is included in Appendix A. If you have previously registered with ANRA, this document is not required for the bid proposal.
- Certificate of Liability Insurance (\$1,000,000 coverage)

*If available, include the Certificate of Liability Insurance with the proposal. Proof of insurance will be required prior to contract execution.*

**Responses to the RFP are due by 10:00 AM on Monday, February 8, 2016.** One (1) unbound hard copy of the proposal response is required. Submission must be delivered in a **sealed envelope** labeled on the exterior with the following:

|                          |  |
|--------------------------|--|
| <b>Bidder/Firm Name:</b> | _____  |
| <b>RFP Name:</b>         | Installation of OSSFs in the Attoyac Bayou Watershed |
| <b>RFP Number:</b>       | CWA-2016-01  |
| <b>Date Issued:</b>      | January 14, 2016                                     |
| <b>Date Due:</b>         | February 8, 2016 at 10:00 AM                         |

Submissions are to be delivered to:

Angelina & Neches River Authority  
ATTN: Brian Sims  
210 E. Lufkin Ave.  
Lufkin, TX 75901

**\*\*\* LATE PROPOSALS WILL NOT BE CONSIDERED \*\*\***

## Bid Proposal Cover Page

### Installation of On-Site Sewage Facilities in the Attoyac Bayou Watershed

**RFP Number:** CWA-2016-01  
**Date Issued:** January 14, 2016  
**Date Due:** February 8, 2016 at 10:00 AM  
Sealed Bids will be opened at this time at the  
ANRA Central Office, 210 E. Lufkin Ave., Lufkin, TX

Installer agrees to supply the products or services at the prices stated below in accordance with the terms, conditions, and specifications contained in this RFP.

Company Name: \_\_\_\_\_

Owner Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

### Pricing Proposal – Item Detail Costs

Installer, please provide a FIRM, FIXED TOTAL COST for the On-Site Septic Facilities listed below. All prices must include back filling and grading, material, labor, equipment, supervision, transportation (up to 50 miles round trip), and overhead. The proposed price must also include all other costs, direct or indirect, that is not itemized elsewhere, but that will affect the price of said system.

The anticipated number of systems for this grant project is 20 – 23 systems total, depending on unit cost and available grant funds. Systems will be installed in the portions of Rusk, Shelby, Nacogdoches, and San Augustine counties that lie within the Attoyac Bayou watershed.

#### Base Costs

| SYSTEM COMPONENTS               | Base Bid  |   |
|---------------------------------|---|---|
|                                 | 500 GPD Aerobic   | 750 GPD Aerobic   |
| Treatment Plant Manufacturer    | TCEQ Approved System  | TCEQ Approved System  |
| Pump Tank Capacity              | 500 gallon (minimum)  | 750 gallon (minimum)  |
| Trash Tank Capacity             | 325 gallon (minimum)  | 500 gallon (minimum)  |
| Effluent Pump                   | ½ HP Submersible (or equivalent)  | ½ HP Submersible (or equivalent)  |
| Disinfection                    | Approved Liquid Chlorinator   | Approved Liquid Chlorinator   |
| Alarms                          | Audible & Visible High Water Alarm  | Audible & Visible High Water Alarm  |
| Effluent Pump Timer Requirement | Optional w/20' setback on property lines                                  | Optional w/20' setback on property lines                                  |
| Final Disposal                  | Surface Irrigation  | Surface Irrigation  |
| Sprinklers                      | 3 Rainbird Maxi-Paw sprinklers with # 10 Low Angle Nozzle (or equivalent) | 4 Rainbird Maxi-Paw sprinklers with # 10 Low Angle Nozzle (or equivalent) |
| Maintenance Contract            | 2 Year Contract   | 2 Year Contract   |
| Maintenance Inspections         | 4X per year for 2 years   | 4X per year for 2 years   |
| BID PRICE                       | \$  | \$  |

### Permit Fees

The Installer will assist the homeowner in preparing the permit application. The cost of the permit fees is to be paid by the Installer and invoiced to ANRA for reimbursement with the cost of the system. The permit fees for each county in the project area are as follows:

| County        | Authorized Agent                  | Permit Fee |
|---------------|-----------------------------------|------------|
| Rusk          | Rusk County                       | \$ 275.00  |
| Shelby        | TCEQ Region 10 (Beaumont)         | \$ 210.00  |
| Nacogdoches   | Nacogdoches County                | \$ 300.00  |
| San Augustine | Angelina & Neches River Authority | \$ 420.00  |

### Filing Fees

The Installer will file the Affidavit to the Public for the homeowner with the county of residence. The cost of the filing fee will be paid by the Installer and invoiced to ANRA for reimbursement with the cost of the system. The filing fees for each county in the project area are as follows:

| County        | Filing Fee                                     |
|---------------|--|
| Rusk          | \$16 (1 <sup>st</sup> page) / \$4 (additional) |
| Shelby        | \$26 (1 <sup>st</sup> page) / \$4 (additional) |
| Nacogdoches   | \$26 (1 <sup>st</sup> page) / \$4 (additional) |
| San Augustine | \$26 (1 <sup>st</sup> page) / \$4 (additional) |

### Add-On Costs

Additional items not included in the base cost of the system should be included below.

| Additional Costs  | Bid Price |
|---|-----------|
| Pump and Fill existing septic tanks   | \$        |
| Timer on systems with 10' setback, each   | \$        |
| Class II Soil backfill (if adequate amount is not available at jobsite), per cubic yard     | \$        |
| Additional Sprinkler Heads (material and installation), each                                | \$        |
| Additional Risers (material and installation), each   | \$        |
| Additional PVC pipes for undisclosed stub outs (material and installation), per linear foot | \$        |
| Additional electrical conduit (material and installation), per linear foot                  | \$        |
| Mileage (>50 miles round trip), per mile  | \$        |

### List of Subcontractors

If subcontractors are to be used for a portion of this project (excavation, installation, electrical, system maintenance, etc.), a list of subcontractors must be provided. Use additional sheets if necessary.

|                    |  |
|--------------------|--|
| Company Name:      |  |
| Owner Name:        |  |
| Address:           |  |
|                    |  |
| Telephone:         |  |
| Fax:               |  |
| Services Provided: |  |

|                    |  |
|--------------------|--|
| Company Name:      |  |
| Owner Name:        |  |
| Address:           |  |
|                    |  |
| Telephone:         |  |
| Fax:               |  |
| Services Provided: |  |

|                    |  |
|--------------------|--|
| Company Name:      |  |
| Owner Name:        |  |
| Address:           |  |
|                    |  |
| Telephone:         |  |
| Fax:               |  |
| Services Provided: |  |

## Questionnaire

### PLEASE COMPLETE THE FOLLOWING INFORMATION:

#### Previous Experience

Number of years of experience the proposer has had providing similar services: \_\_\_\_\_ years

Do you have previous experience performing work for state or federal grant projects (such as Texas Commission on Environmental Quality, Texas Water Development Board, Texas State Soil and Water Conservation Board, or the Environmental Protection Agency)?

\_\_\_\_\_ YES

\_\_\_\_\_ NO

Please briefly describe previous experience:

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#### Licenses/Certifications/Insurance

Do you have the required licenses, certifications, and insurance coverage as required in the RFP specifications?

\_\_\_\_\_ YES

\_\_\_\_\_ NO

Have you included copies of these documents with your RFP Response? Failure to provide this information may cause your proposal to be rejected.

\_\_\_\_\_ YES

\_\_\_\_\_ NO

#### Ability to Perform Work

If awarded this project, does your firm have the ability to install up to 23 aerobic OSSFs between February 10, 2016 and August 31, 2016?

\_\_\_\_\_ YES

\_\_\_\_\_ NO

Please briefly describe the staffing (number, years of experience, etc.) available for this project, as well as the equipment available to perform the work:

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## APPENDIX A – ANRA OSSF Professionals Registration Form



### ON-SITE SEWAGE FACILITIES PROFESSIONALS REGISTRATION FORM

Information provided on this form will be used to verify the status of On-Site Sewage Facility (OSSF) professional licensure with the Texas Commission on Environmental Quality (TCEQ). The information will be used to disseminate information from the Angelina & Neches River Authority OSSF Program to the OSSF professionals in our service area. This information will also be used to provide a list of OSSF professionals to the general public as part of ANRA's OSSF application process. The list will be available through ANRA's office and on ANRA's website under the OSSF section at <http://www.anra.org/divisions/wastewater/ossf/index.html>. The information provided to ANRA is subject to release under the Public Information Act, Texas Government Code Chapter 552.

Please check this box if you do **NOT** wish to have any of your information posted to our website or provided with OSSF application packets.

Fields marked with an asterisk (\*) are required:

Registration Type:\*     New     Revision     Annual Renewal

**REGISTRANT INFORMATION**

Name:\* \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Address:\* \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Telephone:\* (    ) \_\_\_\_\_  
 Fax: (    ) \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Company \_\_\_\_\_  
 Website: \_\_\_\_\_

**REGISTRATION CATEGORY:\***

|   |            |           |
|---|------------|-----------|
| <input type="checkbox"/> OSSF Installer Class II (OSII) | License #* | Exp. Date |
| <input type="checkbox"/> OSSF Installer Class I (OSI)   | _____      | _____     |
| <input type="checkbox"/> Registered Sanitarian (RS)     | _____      | _____     |
| <input type="checkbox"/> Site Evaluator (SE)            | _____      | _____     |
| <input type="checkbox"/> Maintenance Provider           | _____      | _____     |

Additional Information (Alternate contact phone #, email address, etc.)

\_\_\_\_\_  
 \_\_\_\_\_

An email address is required if you wish to receive updates from the Angelina & Neches River Authority regarding the On-Site Sewage Facilities Program. Email addresses provided to ANRA will not be included on ANRA's website or with the list of registered professionals provided to the public.

**\*\*\* PLEASE INCLUDE A COPY OF YOUR CURRENT TCEQ LICENSE(S) WITH YOUR REGISTRATION FORM\*\*\***

Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature Date

Please return this form to ANRA's office in person, by mail, by fax, or by email.

|                                   |   |
|-----------------------------------|---|
| Angelina & Neches River Authority | Phone: 936-632-7795                                     |
| 210 E. Lufkin Avenue              | Fax: 936-632-2564                                       |
| Lufkin, TX 75901                  | Email: <a href="mailto:ossf@anra.org">ossf@anra.org</a> |