

**Coastal Zone Act Reauthorization Amendments (CZARA) - On-Site Sewage Facilities  
Inventory Phase 3**

Contract 582-18-80210

Draft Final Report

(Deliverables 7431, 7432)

Submitted to TCEQ

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By

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This Contract, effective 9/1/2017, will help address an outstanding management measure of the State's Coastal Nonpoint Source Pollution Control Program. Section 319 funds were utilized to update and maintain an inventory of OSSFs in the coastal zone, and to investigate the development of a user interface to allow data entry of OSSF inspection and permit information from Authorized Agents.

Texas A&M AgriLife Extension built up on successfully executed Phase I and Phase II of the CZARA project, which primary focus was to provide public outreach on fundamentals of operation and maintenance of OSSF systems for homeowners; identify failed and malfunctioning systems; provide inspections, pump-outs of septage and replacement of selected systems within the Coastal Zone boundaries; and to create and implement a methodology to build an inventory of OSSF systems for the Coastal Zone of Texas.

Contract Tasks and deliverables include the following:

1. Project Administration: QPRs, Reimbursement Forms, Post-Award Orientation meeting notes with action items, Conference Call meeting notes with action items, Coordination meeting with EPA (upon request), Annual Report article and pictures (upon request), Contract Budget Updates, and Annual Budget Updates;
2. Quality Assurance: QAPP Planning meeting notes, QAPP Annual Reviews and Revisions, and Draft and Final QAPP Amendments;
3. OSSF Inventory: Draft geodatabase/GIS layers/metadata, Final geodatabase/GIS layers/metadata, Tables, maps and other information generated under Subtask 3.2, Large professional color prints of inventory maps; Draft OSSF Inventory and Analysis Task Report, and Final OSSF Inventory and Analysis Task Report;
4. Method Development for Automated Data Entry: Draft Findings and Analysis Report, Final Findings and Analysis Report;
5. OSSF Neighborhood Evaluations: Documentation of outreach and coordination activities, Draft Survey Results Report, and Final Survey Results Report;
6. Final report: Draft Final Report, Address TCEQ/EPA comments, and Final Report.

Deliverables for each Task were produced timely, or with delays justified in writing, and approved by the TCEQ Project Manager. The large professional color prints of inventory maps (Deliverable 7423) were waived by the TCEQ Project Manager.

Final OSSF Inventory geodatabase (Deliverable 7421) have metadata compliant with the Federal Geographic Data Committee (FDGC) standards. Tables, maps and other analysis (Deliverable 7422) are included in the Final OSSF Inventory and Analysis Task Report (Deliverable 7425). The report also includes detailed description of geodatabase layers and attributes, list of changes made to the coastal inventory with respect to Phase I and II, and final findings and analysis on the Method Development for Automated Data Entry (Deliverable 7427).

A separate report refers to Task 5, OSSF Neighborhood Evaluations in the Double Bayou located in Chambers County (Deliverable 7430). The report includes details on methods (collaboration with local entities, description of the project area, and evaluation procedure), field observations, obtained results, and a discussion of results with recommendations for future outreach efforts in the watershed. Appendices show a map of the study area, survey form, and examples of material left at the door of homes with restricted access or no one home.