Research the Research



Gabriele Bonaiti and Joshua Segura

Summary and goal:

This project pertains to Topic 2.3.2 of the 2023 Texas Onsite Grant Program (TOGP) Request for Grant Applications (RFGA). The aim of this project is to create a database with a high-volume content of literature relating to On-Site Sewage Facilities (OSSFs). The importance of finding literature is to provide a wide array of resources to help educate the public, be instrumental towards research, structure policies and regulations, and industry. With gathering publications, this has the potential to make these resources more widely available and enhance the feasibility for searching of desired publication(s). Once the database is made, the final process is to broadcast the materials on a public page where it should be widely accessible.

Objectives:

- 1) Expand on subjects to include more variety of publications
- 2) In-depth search for materials across a variety of sources, as shown in Table 1, but not limited to:

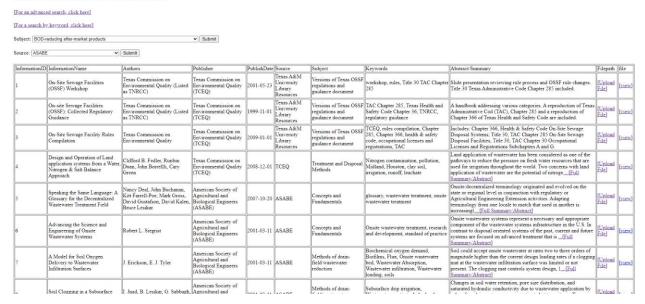
Table 1: Sources for material publications

Source Name	
Texas A&M University Library Resources	
Texas Commission on Environmental Quality (TCEQ)	
American Society of Agricultural and Biological Engineers	
(ASABE)	
National Onsite Wastewater Recycling Association (NOWRA)	

3) Create a Standard Query Language (SQL) database that allows for easy storage and retrieval of selected material(s) through the TCEQ website. Figure 1 shows a current version of the database presented on a webpage.

Figure 1: Database Webpage

OSSF DOCUMENT DATABASE



4) Implementation of query tools allows narrowing down of searches by specific features. This includes an advanced search option where multiple features such as title, subject, keyword, subject, and source can be selected, such as shown in Figure 2:

Figure 2: Advanced Search option

ADVANCED SEARCH

Title:	
Keyword:	
Subject: BOD-reducing after-market products	•
Source: ASABE	

5) Create a user-privilege where there are view-only privileges and another type of user that can edit and view. Allows for outside collaboration.

Deliverables:

- 1) Multiple pages for broadcasting the database to view, upload, and query materials
- 2) Documentation on the database operation and use
- 3) Quarterly progress reports and a final report