

# Department of Environmental Protection Division of Water Resource Management: Potable Water System (PWS) Enterprise 24x7 Inc. Project Summary

## Overview

A custom written Oracle forms and ASP reports application for the Florida Department of Environmental Protection (DEP), Division of Water Resource Management (DWRM). This application is used to track the drinking water system inventory (Systems, plants, wells and surface intakes) for all regulated potable water systems registered in Florida. Each component (system, plant, well, etc.) includes numerous attributes which identify the owners, contacts, operators, well construction, volume and customer base.

This system tracks, on a daily basis, the number and type of samples received from each system and sends out reminders of out-standing samples required to meet reporting requirements in order to avoid a violation. Sample Maximum Contaminant Limits (MCLs) are also tracked to ensure each water system abides by the state and federal standards for safe drinking water.

The application includes two additional components:

- Tracking the date & outcome of inspections performed by agency staff for each system.
- Tracking violations and enforcement actions against drinking water systems.

## E24X7INC Services

The **System Analyst (SA)** had specific assignments related but not limited to attending team meetings and providing technical input to information technology solutions. The SA worked closely with customers, business analysts, and team members to understand business requirements that drove the analysis and design of quality technical solutions (aligned with business and IT strategies and with DEP architectural standards). The SA was involved in the full systems life cycle. He was responsible for designing, coding, testing, implementing, and supporting applications software that was delivered on time and within budget. He provided database development and maintenance for the drinking water program. The SA assignments included Oracle forms, reports, Java, J2EE technologies, Crystal Reports, XML, SQL scripts to move data and to create database objects (tables, views, indexes, constraints, triggers, sequences, etc.). The SA also created ERD and SMD diagrams, modified database structures to implement required business rules, created and assisted in the creation of scripts used in the migration packages executed by the DEP DBAs to move the Oracle application from development, to the test and production platforms.

## Technologies Leveraged

- Oracle Forms
- ASP .NET
- Java/J2EE
- Oracle Database
- PL/SQL
- MS Office
- XML
- Crystal Reports