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PLAN A RISK BASED ASSESSMENT AND DRINKING WATER SURVEY FOR LPST SITE

PROJECT OVERVIEW

ESE completed a Plan A Risk Based Assessment and Drinking Water Survey for a commercial property enrolled in the Texas Petroleum Storage Tank Program to support corrective action decision-making and protect potential receptors. The work combined targeted field investigation, groundwater monitoring, and a defensible receptor survey to reduce uncertainty and design an effective path to regulatory closure.

CHALLENGES

Sites with legacy petroleum releases require more than sampling results because risk and regulatory strategy depend on where impacts are present, how they migrate, and whether drinking water or surface water receptors could be affected. This project required a clear understanding of soil and groundwater conditions, site hydrogeology, and nearby water well presence to support a compliant Plan A submittal and establish a practical path forward.

ESE'S APPROACH

ESE prepared the Plan A Assessment Report Form in accordance with TCEQ requirements and completed the supporting investigation elements needed to evaluate gasoline-related constituents in soil and groundwater. Field activities included installation of multiple monitoring wells using hollow stem auger drilling and collection of soil and groundwater data to define site conditions, evaluate groundwater gradients, and support concentration mapping. ESE also completed a Drinking Water Survey using multiple authoritative well and public water datasets and documented findings in the required supporting report and exhibits.

KEY ELEMENTS DELIVERED

- Plan A Assessment Report Form package with supporting exhibits and analytical tables prepared for TCEQ review
- Monitoring well installation and documentation to support groundwater evaluation and long-term monitoring
- Drinking Water Survey completed using TCEQ, TWDB, HGSD, and USGS well and public water datasets to evaluate nearby receptors
- Supporting maps and attachments addressing soil, groundwater, vapor considerations, and surface water assessment components as required for Plan A submittals

RESULTS

ESE delivered a regulator-ready Plan A risk assessment and receptor survey package that defined current site conditions and provided the documentation needed to support corrective action planning under the PST Program. The submittal established a clear technical foundation for risk evaluation and next-step decision-making while maintaining compliance with required TCEQ forms and guidance.

PROJECT IMPACT

Corrective action projects move faster and with fewer surprises when investigation data and receptor evaluations are packaged in a way that is defensible and easy for regulators and stakeholders to review. By combining focused field execution with thorough drinking water receptor screening, ESE reduced uncertainty and positioned the project for efficient progression through the corrective action process.