



Case Study

Toland Road Landfill ~ Landfill Gas System Upgrades

Background

Toland Road Sanitary Landfill (TRSL) in Santa Paula, CA is owned and operated by the Ventura Regional Sanitation District (VRSD). TRSL's landfill gas collection system handles XX SCFM and needed upgrades to maintain compliance with applicable rules and regulations.

DEI Scope of Work

DEI was hired by VRSD to assist its internal team in reviewing the status of the collection system, and making recommendations for adjustments, as needed, to bring the landfill gas operations into full compliance with applicable rules and regulations.

DEI Tasks

DEI completed the following work tasks:

- Evaluate the existing collection system;
- Make recommendations to bring the collection system into compliance. Recommendations included:
 - Installation of additional vertical collection wells to increase collection efficiency
 - Upgrade capacity of blower system to manage anticipated landfill gas flow
- Manage the design and installation of approximately 109 additional vertical collection wells, including:
 - Preparation of Request for Proposal (RFP) documents
 - Conduct bid and assist VRSD in the evaluation of bids
 - Provide construction management for the installation of wells
- Designed and managed the installation of the Inlet Blower System including:
 - Detailed design of the blower system
 - Equipment procurement including preparation of RFP documents; collection and evaluation of bids
- H₂S Treatment Equipment Installation
 - Civil and Structural design to support interconnection and equipment installation
 - Preparation of RFP documents and specifications
 - Collect and evaluate bids
- Provide construction management including:
 - Site Preparation
 - Equipment delivery and installation
 - Start Up and Commissioning

Results

- All wells and the new inlet blower system were successfully installed over the course of 2014 and 2015.
- The site has increased its overall LFG collection flow rates and is currently in compliance with all applicable rules and regulations.

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