

# Simi Valley Landfill GCCS Expansion Design and Construction Quality Assurance

Simi Valley, California

## CLIENT

Waste Management, Inc.

## HIGHLIGHTS

- Design Engineer for the new GCCS system
- 26 new wells including 5,100 feet of new 24-inch header pipe
- Construction is in three phases for installation of horizontals in separate waste lifts
- Optimization analysis of well connections to maximize gas extraction
- Header design required two road crossings
- Construction Quality Assurance

GLA is the design engineer and is performing Construction Quality Assurance (CQA) for a landfill Gas Control and Collection (GCCS) expansion at the Simi Valley Landfill and Recycling Center in Simi Valley, California.

This design includes 26 new horizontal wells, 5,100 feet of new 24-inch header pipe, and laterals to connect all new wells to the header pipe. The improvements are being

constructed in three phases so that the installation of the horizontals occur within different lifts of waste. The design was developed to ensure each phase could be constructed and integrated with existing infrastructure and subsequent phases. The design phase includes optimization analysis of horizontal well placement to maximize gas extraction and provide for ongoing optimization of system operation. The header design required two road crossings with difficult existing condition limitations, adding to complexity of the design.

GLA is currently providing CQA services overseeing the construction of the system, and produced as-built drawings of the constructed project.



GLA performing CQA for the GCCS expansion