



# LANDFILL GAS COLLECTION SYSTEM ENHANCEMENTS

## High Acres Landfill

### Gas Well Installation



**1.** Speciality gas drilling rig mobilized to well site



**2.** Vacuum box installed and connected to collection system



**3.** Drilling well through vacuum box to reduce odors



**4.** Completed gas collection well

### Gas Header Improvements



**1.** Header pipe welding



**2.** Header installation



**3.** Fusion welding at gas to energy plant/flare



**4.** Header tie-in to existing system



Completed Geomembrane Cover in Cell 10 and 11

# GEOMEMBRANE COVER ENHANCEMENTS

## High Acres Landfill



Gas collection installed below geomembrane cover



Toe of slope horizontal gas collection



Deployment of geomembrane cover



Completed geomembrane cover with gas collection

Additional geomembrane cover installation in Cell 11



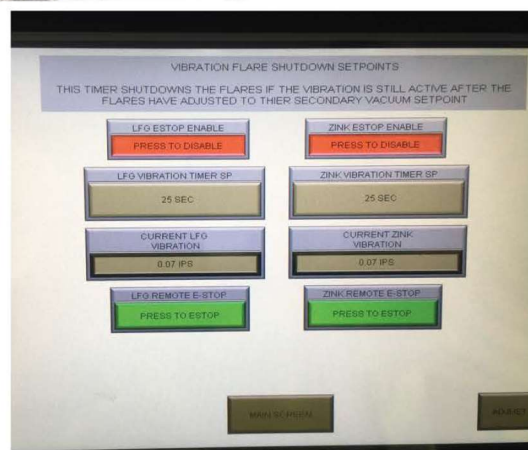
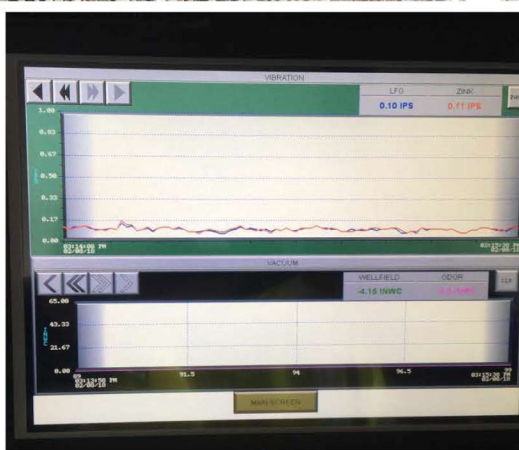
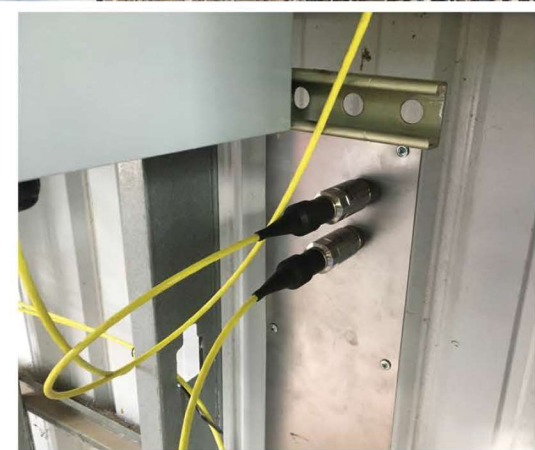


In order to improve the real time monitoring of the landfill gas collection system at High Acres, Waste Management has installed Loci Sentry H Automated Valves and Well Monitor Units at select locations in the gas collection and conveyance system.

This innovative technology provides remote monitoring and measurement to allow 24/7/365 visibility for the landfill gas collection process.

# TECHNOLOGY AND INNOVATION

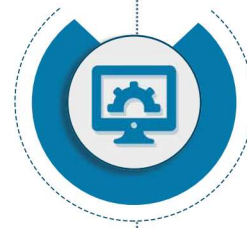
## High Acres Landfill



Vibration Sensor Installation



Anti-Vibration System



Anti-Vibration System

In mid January, WM installed an anti-vibration system at the Landfill Gas Flares. This system is designed to immediately and automatically adjust gas flow into the flares in the event that a vibration over 0.061PS is detected. This reduction of gas flow will immediately stop the vibration.

