

Designing a Fence Line Monitoring Program to Detect Volatile Organic Compounds (VOCs) on a Real-Time Basis

Oral Presentation

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ABSTRACT

Technologies having the capability to detect Volatile Organic Compounds (VOCs) using beams of light traversing an open path have been described since the late 1970s. However, the approach has had limited use as a commercially available method for detecting VOCs in real-world applications. Identification of technologies that can meet regulatory standards has increased in importance given enactment of regulatory policy that specifically pinpoints fence-line air monitoring as a primary method of detecting VOCs in the air. This presentation presents an overview of the methods used to create a fence-line air monitoring program that can meet regulatory standards for the detection and quantification of VOCs on a real-time basis. This includes identification of technologies that can meet regulatory standards as proposed by the Bay Area Air Quality Management District (BAAQMD) in Northern California, developing a Quality Assurance/Quality Control (QA/QC) program, creating a publically available data reporting system, and designing a large scale data management plan for the management of both real-time and QA/QC'd data. The presentation will focus on results and lessons learned from two actual locations where these techniques have been utilized to provide real-time results to the public on a 24/7 basis.

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