mPACT2WO a molex Business

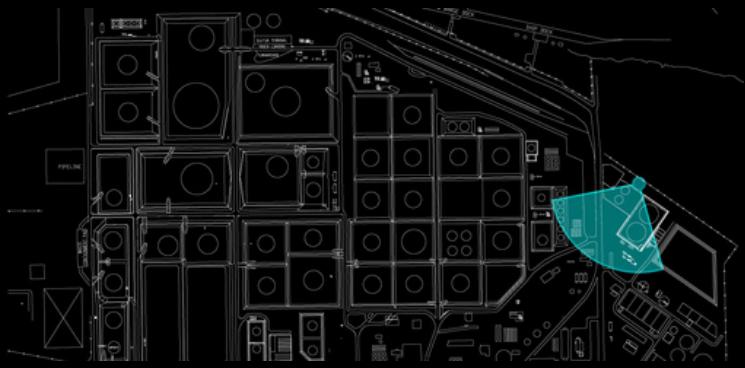
CASE STUDY

SEGMENT: PETROLEUM REFINERIES

mRegz™ AirCompliance

Early Leak Detection for Fenceline Emissions

Mitigates Risk, Maintains Compliance within Threshold



PROBLEM

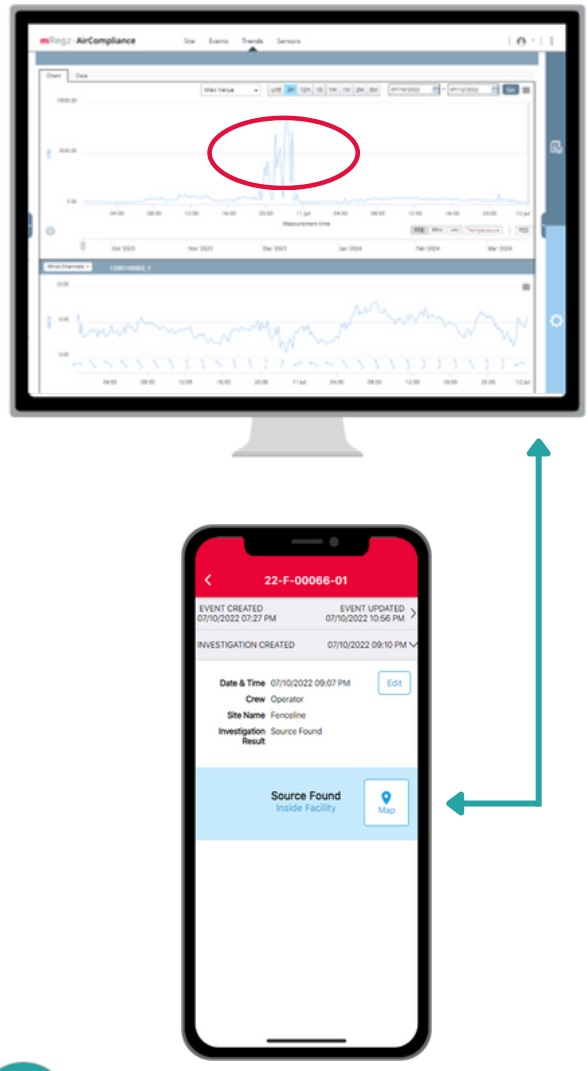
Passive sampling method delays the detection of leaks at a fenceline, resulting in compliance risk.

ASSET

Promptly identifying leaks at frac tanks near a plant's fenceline is vital for meeting regulatory thresholds.

ALERT

- mRegz™ AirCompliance sent an alert from Molex sensors co-located with the EPA method passive sampling canisters with vital insights and an emissions peak of 3493 PPBe.
- Logging into mRegz™ AirCompliance displayed an emission cone, indicating potential emission source direction.
- After assessment, the operations team initiated an investigation in the vicinity.



INVESTIGATION

- Upon starting a thorough leak search, personnel detected a 12 PPM reading near a frac tank.
- Further investigation found a broken hinge on the tank, leaving the hatch open.
- The operator promptly secured the hatch, resolving the leak within 2 hours.

RESULT

The timely discovery of the leak, nine days before the sampling period ended, proved pivotal. Failure to detect it for an extended period could have led to substantially higher emissions, jeopardizing compliance within annual rolling average thresholds. Early detection not only mitigates risk but also maintains adherence to compliance standards.

TRANSFORMATION

The adoption of the mRegz™ AirCompliance solution facilitated continuous operational insights into the leak at the fenceline. Timely leak identification prevented higher emissions and minimized environmental risks.

04/24

Contact us at **mPACT2WO@molex.com**

Learn more about mPACT2WO Digital Operations Transformation Series (mDOTS) at **mPACT2WO.com**