



Save Your Infrastructure

H2S will rob you blind if left unchecked!

Concrete is the foundation of the waste management industry. Pipes, buildings, and treatment facilities are constructed with this seemingly sound material. Thousands of miles of concrete pipes lie underground as a network for this industry to manage sewage and water. Not only is this pipe network crucial to the operations of this industry, but it is also one of its biggest expenses. Installing these pipes requires a tremendous amount of time, money and manpower. In order to preserve this investment, the pipes must be actively managed, because there is a gas that is wearing down, corroding these pipes, and overtime **all of them will fail at the hands of H2S.**

Hydrogen sulfide (H2S) is a gas being produced naturally in sewage. This gas reacts with gypsum in the concrete and **causes erosion**. H2S leads to the creation of sulfuric acid (H2SO4) and together these chemicals **attack concrete**. Concrete isn't the impervious rock that people like to assume it is, and over time the structural integrity is affected, creating big problems for the managing company.

These problems can be fixed though. **H2S can be removed** from confined spaces, but the process of removal needs to be applied strategically to keep prices down. Randomly administering H2S removal technology would likely result in high costs and inadequate elimination of the problem. That is why **effective testing is necessary for managing the problem and protecting infrastructure.**

Arizona Instrument LLC manufactures the Jerome[®] H2S analyzer. This instrument is used to **pinpoint problem areas** within a system so the appropriate action can be taken. Because the human nose is very sensitive and can detect H2S at .008 ppm (parts per million), some companies feel that a nose test will tell them where they have a problem. The problem with this theory is that **H2S desensitizes the olfactory** and after a few minutes the individual will not be able to smell the chemical anymore. This makes people incapable of detecting multiple problems at one time, and it is harmful to the individual. **Without it a Jerome[®] H2S analyzer it is not possible to accurately assess problems.**

Jerome[®] analyzers read between .003 ppm and .050 ppm. At these levels, hydrogen sulfide is not just a nuisance, but also a real danger to concrete infrastructure. Personal H2S monitors are not an alternative instrument because they are used by personnel to protect them from dangerous levels of this gas and operate in a much higher range (10 ppm to 100 ppm).

Arizona Instrument LLC manufactures the Jerome[®] 631, a portable unit, and the Jerome[®] 651, a fixed unit, and both instruments are excellent weapons in the war against concrete corrosion.

Please contact us today with questions!

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