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## STRIPPING OF LINERS FROM PIPES USING HDD TECHNOLOGY

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**ABSTRACT:** Removal of a factory installed pipe liner using custom designed tooling deployed and actuated by an HDD drill rig is a new method.

Ductile iron pipe with factory applied HDPE liner has been widely used for sanitary sewer installations where high H<sub>2</sub>S gas concentrations exist. Failure of the pipes protective HDPE liner from H<sub>2</sub>S corrosion caused the liner to delaminate in sheets. This created the potential for problematic system backups. It was clear that the failing liner had to be removed. The removal was intended to simultaneously eliminate the potential for backup and produce a surface appropriate for relining using CIPP methods.

This paper will review a highly successful first attempt at using a new trenchless technology, Liner Stripping, in cooperation with Pima County Arizona. System owner engineers, contractor, sub-contractor and equipment manufacturer joined to make the job possible with the custom developed technology.

The job success highlights the potential HDD drills have to service non-man entry or difficult man entry locations with custom engineered tooling. The method of Liner Stripping, as with all trenchless methods, will be less disruptive and less invasive than previously accepted methods or remedies to service pipes interior spaces. The results demonstrate that servicing the interior of buried pipes with the attributes of an HDD drill stem is a concept that has profound potential.