

Doetsch

Environmental Services

is honored to present



Pressure Pipe Cleaning

Cleaning Equipment



Difference between gravity and pressure main cleaning?

- Debris type
- Debris Placement
- Length of Reach
- Reasons for Inspection
- Methods of Cleaning



Conventional Invert Cleaning



Conventional Cleaning



What you can't see under the debris



Differing Elevations

45 degree angle



Gas Riser Application



Long Reach Force Main Cleaning

3600' Reach



Existing Air Relief



Live Forcemain Cleaning

Flow diverted



Pressurized



Results

After cleaning



Next Day



Results

Hardened Debris



Dislodged Debris PVC pipe



Directional Drill Impact



Mechanical Impact



Point Repair



Force Main Cleaning

During cleaning



After cleaning



Severe Conditions



Force Main Cleaning

During cleaning



Invert debris after rotational cleaning



Results

After cleaning



Rust Jacking



Pressure Pipe Cleaning

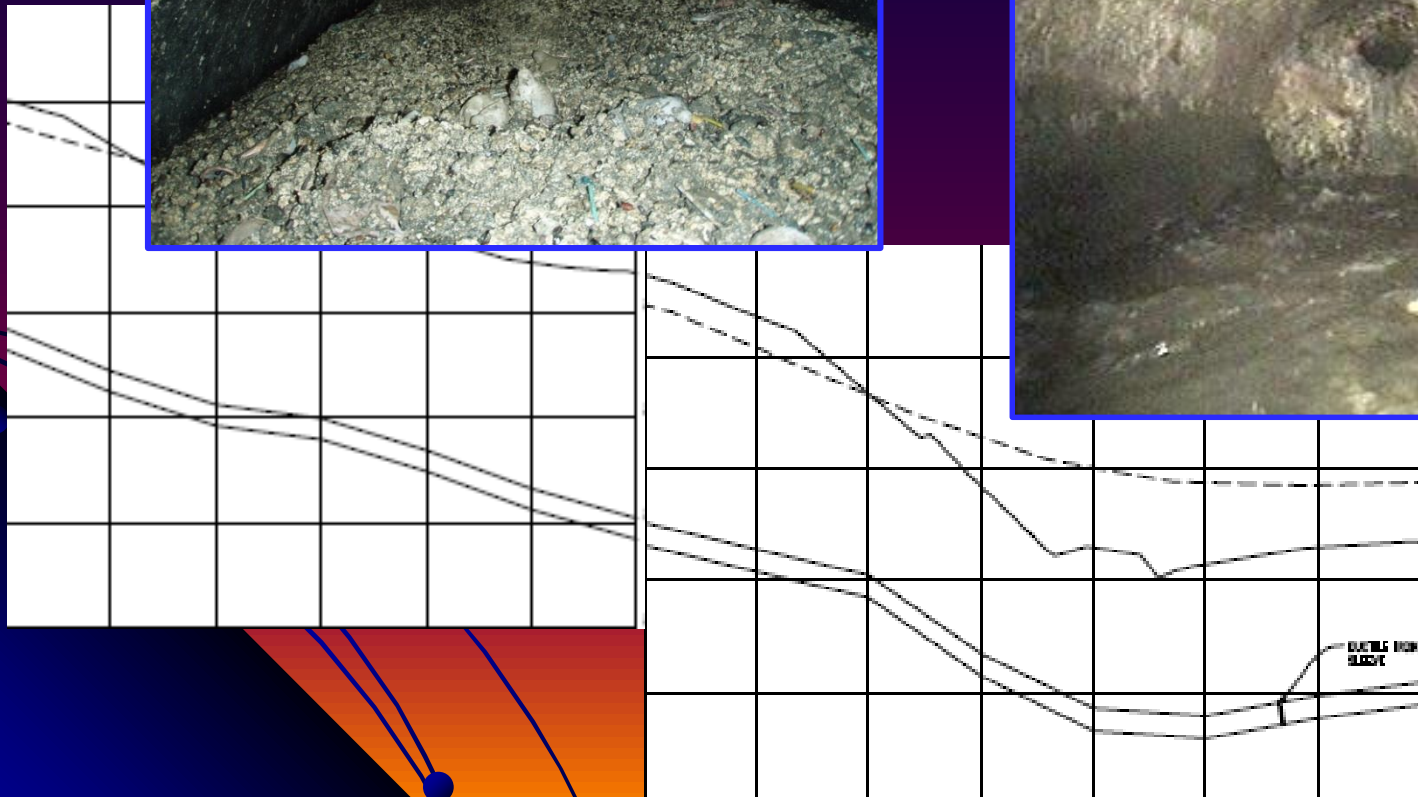
Liner Removal



During Cleaning



Force Main Cleaning



Long Reach Cleaning

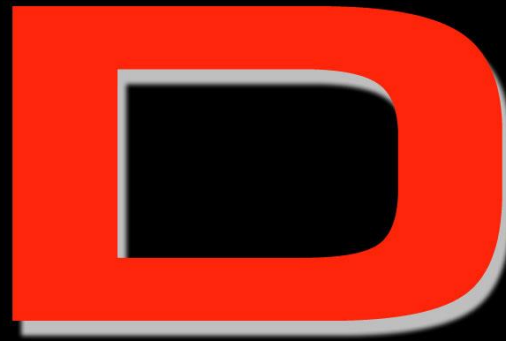


Conclusion

- Pressure main cleaning is
- different
- Different methods to clean
- Long reach has a different set of parameters
- Specify desired outcome



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