



Dirty Water is Costly !

Critical Flushing Requirements for New Building Connections



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Campus HVAC Central Utility Plants, Distribution Piping, & New Building Construction



A **Proper Flush Operation** involves moving water at a high volume and velocity, plus filtration to remove damaging debris and particulates.

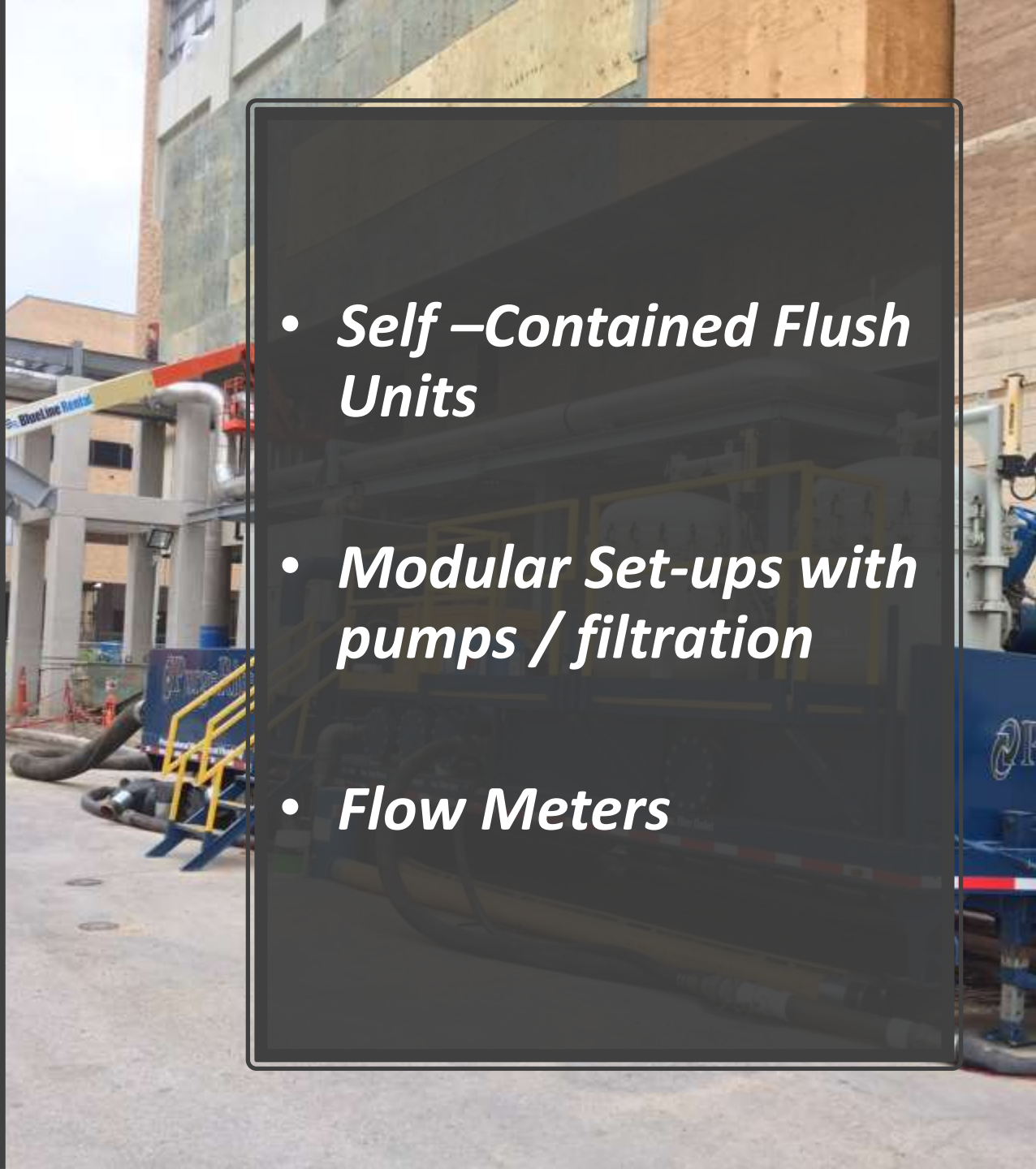
Chemical cleaning is also involved with steel piping.

Without a proper flush, or cleaning, we take a **SIGNIFICANT** chance of damage and lack of efficiency.

Energy & Maintenance savings lost !



“ Rid system of Rust, Dirt, Piping Compound, Mill Scale, Oil, Grease, any and all other material foreign to water being circulated.”



- *Self –Contained Flush Units*
- *Modular Set-ups with pumps / filtration*
- *Flow Meters*

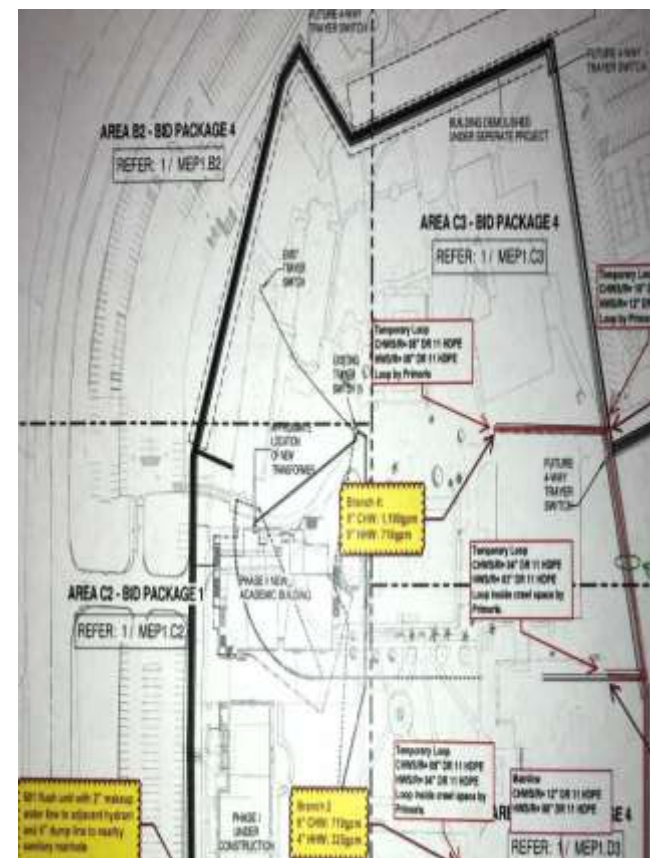


Full Flow Filtration

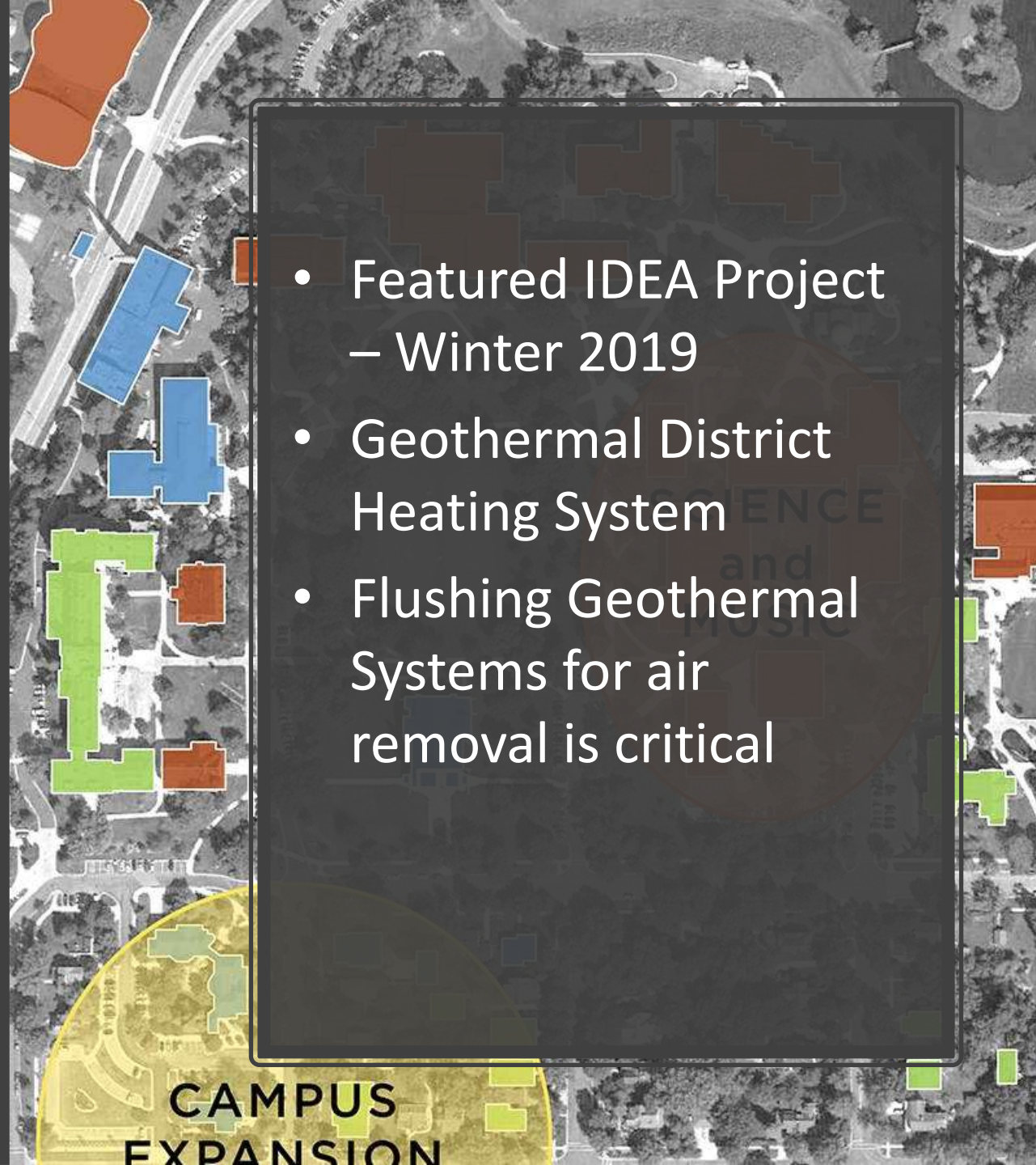
FLUSHING MEANS & METHODS

- ***Clear Water Flush 5 - 7 ft/sec***
- ***Cleaning & Chemical Passivation
3 - 5 ft/sec up to 48 hours***
- ***Final Clear Water Flush – dilute
the cleaning chemicals out and
use 5 micron filtration
Iron = 1.0 ppm or less***





CUP & Distribution Piping



- Featured IDEA Project – Winter 2019
- Geothermal District Heating System
- Flushing Geothermal Systems for air removal is critical

Campus Flush Examples

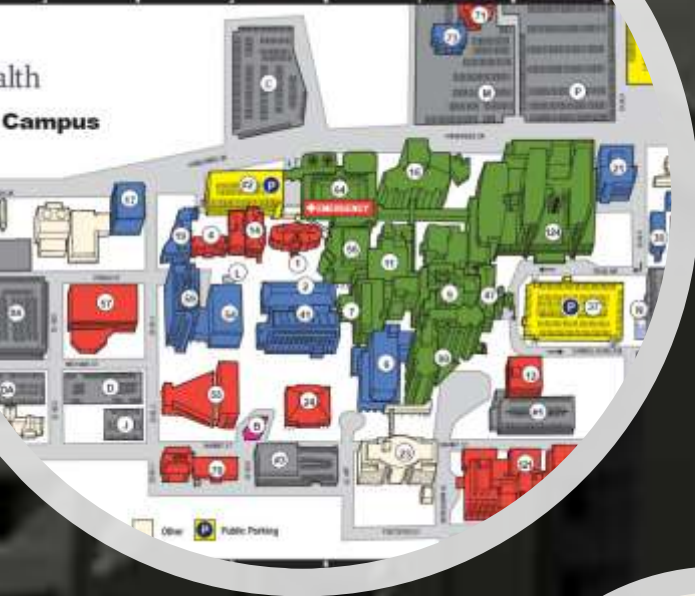


University
of Houston
Clear Lake



UNIVERSITY OF
TEXAS
ARLINGTON

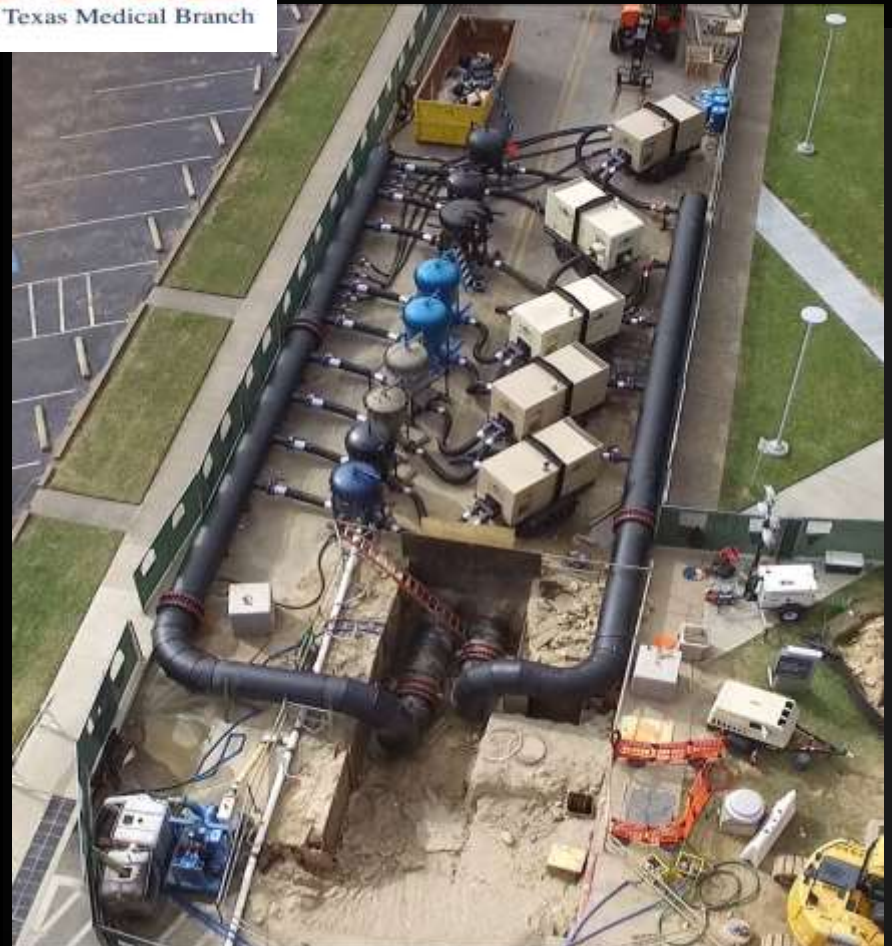




- *Upgrade & Harden Campus Mechanical Plant*
- *Place in service a 36" Underground Steel Chill Water line that had been sitting vacant for over a year.*
- *Flush and Clean @ 5'/sec or 17,000 GPM*
- *50 Micron Filtration, Cleaners, leave with Inhibitors*



Don't compromise your plant.





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