



**Dirty Water vs. Clean Water....**

**Critical Flushing Techniques for  
New Building Connections**



***Russell V. Buras***  
***President***

**PurgeRite.com**

# Lamborghini Veneno – \$ 4.5M







## District Plant Distribution Piping and New Building Connections

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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 !

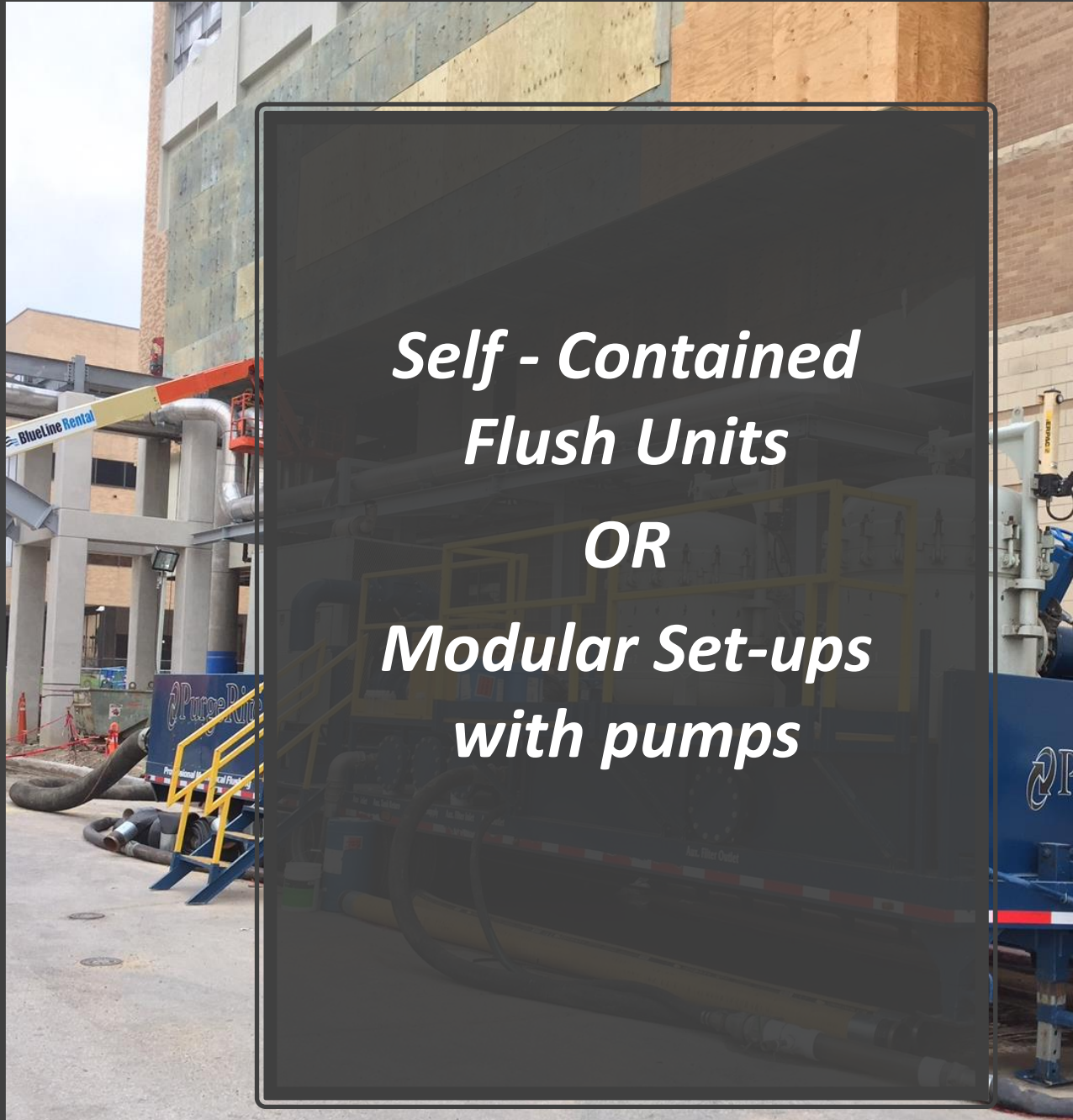




**“ Rid system of Rust, Dirt, Piping Compound, Mill Scale, Oil, Grease, any and all other material foreign to water being circulated.”**

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*Self - Contained  
Flush Units  
OR  
Modular Set-ups  
with pumps*



# In-Line, Full Flow Filtration



# ***Memorial Hermann – Texas Medical Center***

- ***1<sup>st</sup> Hospital***
- ***\$ 650 million expansion***
- ***District Cooling via Thermal  
Energy Corp. District Plant***





## 2 Flushes

Flush #1 – 24" underground portion

Flush #2 – the Meter Loop

(System Volume for both = 55,000 gallons)





**Minimum 3'/sec, rinsed 3 times in 8 hours**

**Restrictive Water Supply and Discharge (500 GPM max) to meet flush specifications**

**Work space limitations & environment**





# Problem

# SOLVED

- Building Loading Dock
- 10 Certified Cleaned Frac tanks – Supply ( 190,000 gals )
- 4 Frac Tanks – Discharge ( 84,000 gals )



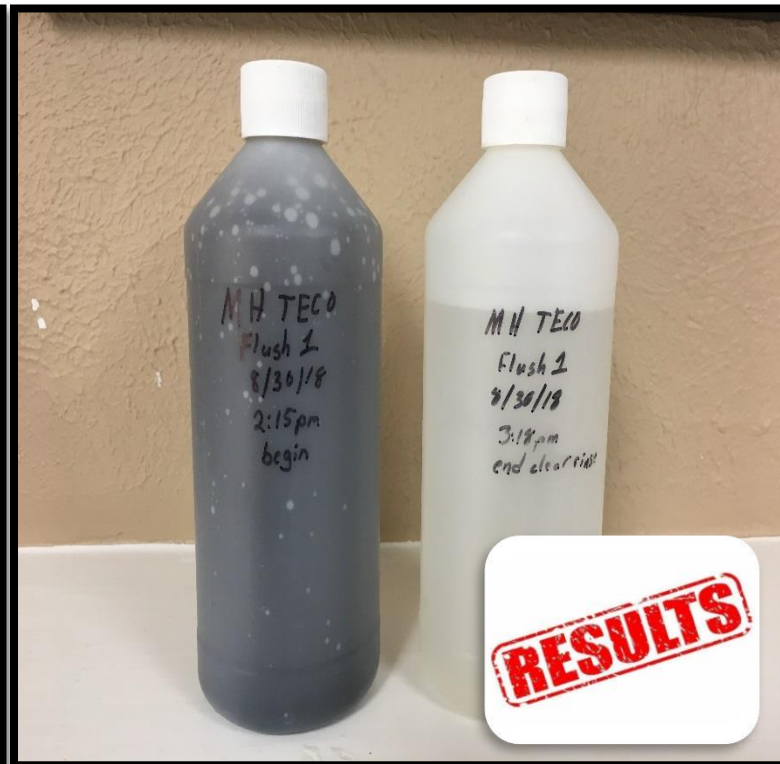












## **Phases for Flushing**

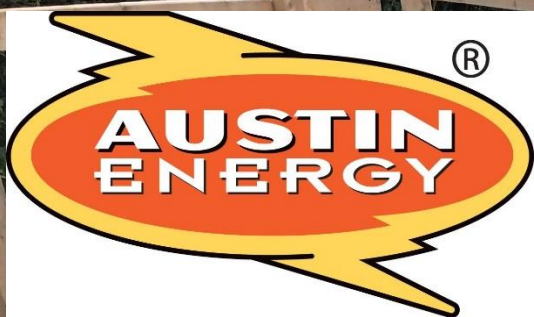
- #1 – System Fill**
  - #2 – Clear Water Flush**
  - #3 – Passivation Process (Min. 24 hrs)**
  - #4 – Chemical Dilution / Rinse**
- Place online immediately or provide for circulation**







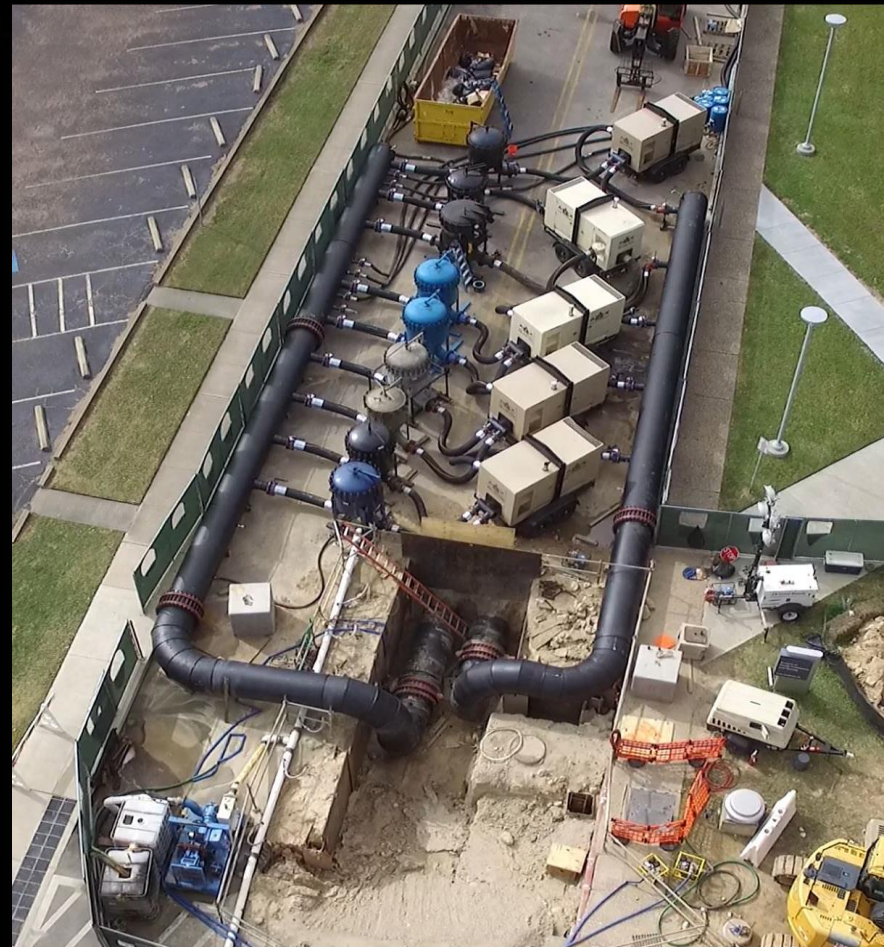






# Don't compromise your plant.

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