

# Dynasty Chemical Corporation

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**Michael Waldman**

Branch Manager

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**Mr. Latina**

Albany County Department of General Services  
112 State Street  
Albany NY 12207  
518 447 5562  
David.latina@albanycounty.com

01/28/2025

Dear Mr. Latina ,

As per our conversation this morning, the heat transfer fluid at the MVP Arena needs immediate replacement. The Heating Loop containing an inhibited glycol solution is currently experiencing Biofouling.

Biofouling in a heating system refers to the accumulation of microorganisms like bacteria, algae, and fungi on the surfaces of heat exchangers and pipes within the system. These microorganisms create a slimy layer that significantly reduces the system's ability to transfer heat, leading to decreased efficiency and increased energy costs. The buildup of biological material acts as an insulator, hindering heat transfer. The biologicals in the system can cause blockages and flow restrictions that ultimately lead to catastrophic heating system failure.

Failure will cause an immediate loss of heat to the building and the cancellation of any events.

The MVP arena's heating system piping and heat exchangers are currently riddled with a thick crust of biofilm. The situation will worsen quickly unless it is remediated as soon as possible. The fluid in the system is experiencing a rapid breakdown and is far past its service life expectancy of 20 -25 years.

The process of remediation:

1. Removal and disposal of the current heat transfer fluid
2. Filling the System with water and 13% sequestering and Chelating Agents. The system is circulated until a pH change is noted. Depending on the severity of the situation this process may have to be repeated.
3. Draining and flushing of the system contents

4. Fill the system with fresh Inhibited Glycol 40% Solution (6000 Gallons)

The estimated cost of this Service is a not-to-exceed price of \$125,000

If you have any questions, please do not hesitate to call me

Sincerely,

**Michael Waldman**