Rochester Water Reclamation Plant
Impacts of Mayo Alkaline Hydrolysis

NACWA
2014 National Pretreatment and Pollution Prevention Workshop

May 16, 2014
Minneapolis, MN
Rochester and The Mayo Clinic

- 2013 population 106,000
- WRP Flow 13.5 MGD_{AA}

- Mayo Clinic 150 Year Anniversary
- Mayo Clinic Employees 35,000+
- 1 million visitors per year
Mayo Downtown Rochester Campus
Alkaline Hydrolysis

- Mayo Clinic approached WRP in 2003
- WRP Reviewed Prohibited Substances
- No Basis to Deny Installation
- Compared with Embalming
- Must Meet Local Limits
- WRP Requested Data
Alkaline Hydrolysis

- Local Limits Apply at Point of Discharge
- Located in Stabile Building
- Began Operation in 2006
- Concerns
  - Mercury
  - pH
Added Surcharge to Stabile Bldg.

Mayo Stabile BOD & TSS

mg/l


BOD TSS
Conclusion

- Not a Prohibited Discharge
- Low Metals Concentration
- Probably safer than discharging embalming fluids
- Discharge Meets Ordinance Requirements
- Mayo discharge is in a large building
- Other locations may need pH adjustment
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