



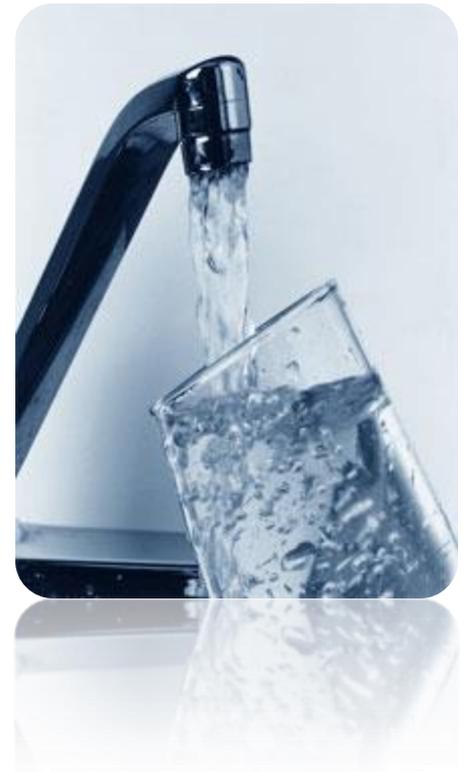
Town of Hanover



Water Discussion
October 21, 2013

What does the water department do?

- Water Treatment
- Water Distribution
- Administrative Staff
- Indirect Costs
- Debt Service

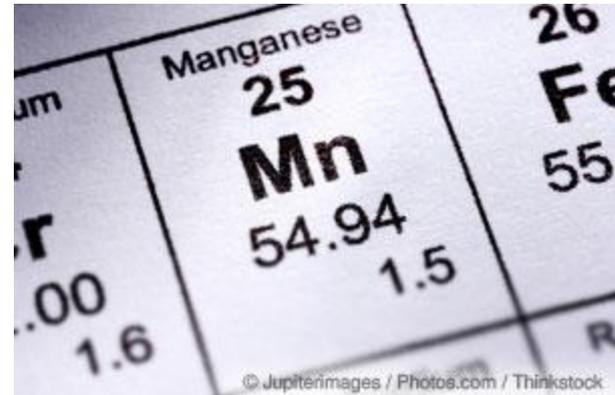


Current Challenges

- Water Color



- Manganese



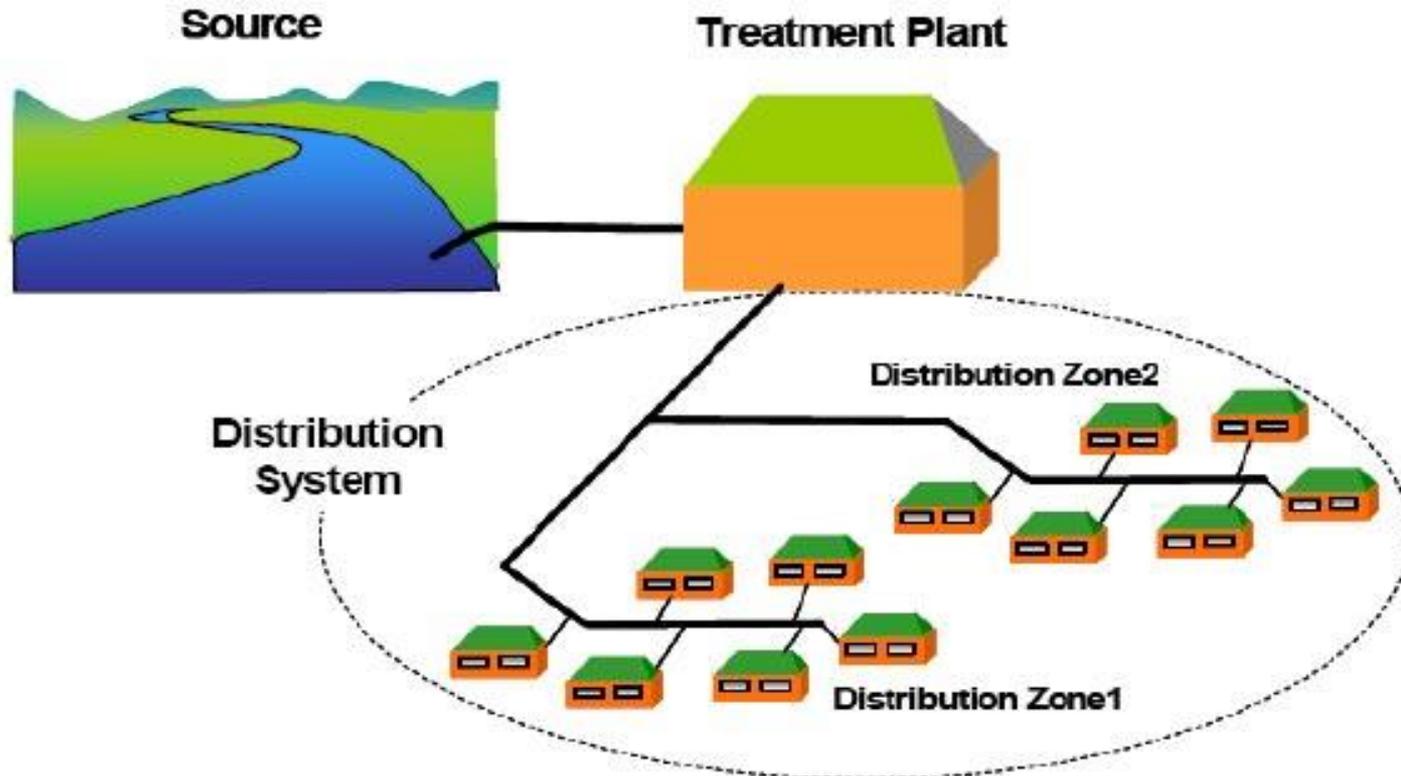
um	Manganese	26
r	25	Fe
.00	Mn	55
1.6	54.94	
	1.5	

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Water Treatment System

- Three Treatment Plants in Hanover
- Respond to Demand
- Varied Demand Creates Varied Pressure



Typical Water Distribution Diagram

Demand Changes based on Plant availability and demand

North Hanover Water Issues

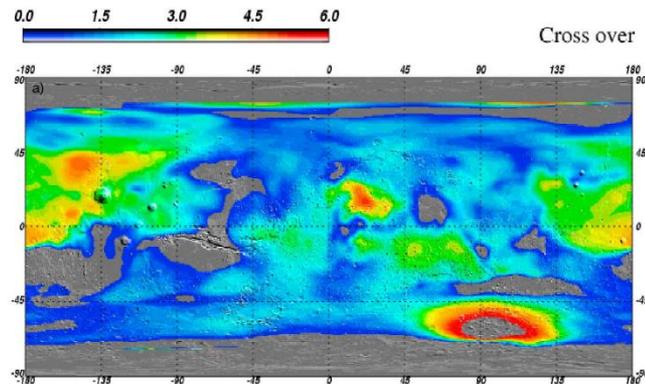
- High demand creates flow pressure
- June rains increased coloration and sediment
- Varied flow demands created varied results
 - Color and Mg levels varied based on house
 - Fielded nearly 100 calls – responded personally

What is the solution?



Hanover Water Department Approach

- Continuous Testing
- Daily Chemistry Adjustment
- Staff Training and Vigilance
- Hydraulic Modeling and Flow Patterns



Long Term Solutions

- Advanced Treatment and Filtration
- \$5 – 10 Million
- Financed through water rates

Conclusions

- Water is Safe to Drink!
- Staff is Proactive and Vigilant
- Discolored Water ≠ Bad Water
- Citizen Input is Critical



Questions?

