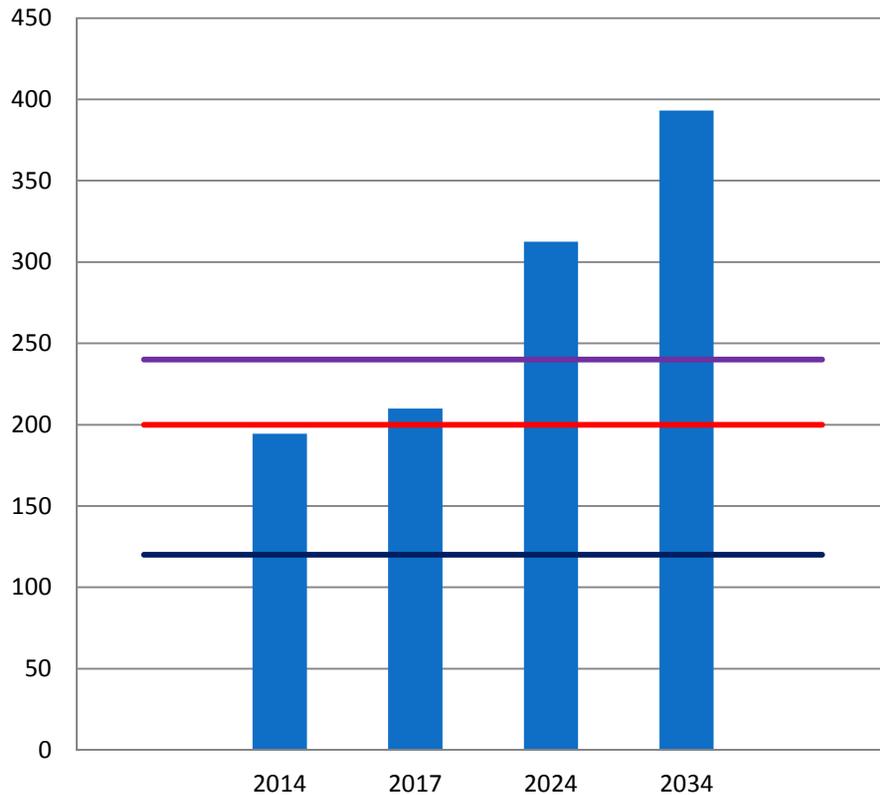




# **Town of Hinesburg Water Supply and Treatment Bond Public Information Hearing**

**November 3, 2014**

# Inadequate Source Supply and Water Quality Issues



Parameter	Units	Maximum Contaminant Level	Existing Wells 1 & 3	New Wells 4 & 5
Hardness	mg/l	None	306	322
Iron	mg/l	0.300	0.230	0.092
Manganese	mg/l	0.050	0.063	ND
MTBE	ppb	40	2.7	ND

ND = Non Detectable

- Demand (gpm)
- Existing Well Capacity (gpm)
- Proposed Well Capacity Low (gpm)
- Proposed Well Capacity High (gpm)

# Diminishing Well Capacity

- Current authorized capacity: 120 gpm
  - Well 1: 45 gpm
  - Well 3: 75 gpm (originally permitted at 140 gpm)
- State requires wells to meet average day demands (140,000 gpd) within 12 hour period (194 gpm)
- Existing wells are run in excess of 12 hours to meet current demands (driving factor for NOAV)
- Physical plugging and biofouling (iron bacteria) are likely causes of reduced yield (“clogged” veins)
- Thorough rehabilitation is challenging with limited ability to take wells off-line
- Re-opening the veins is a concern with MTBE contamination (i.e. open vein to MTBE source)

# Project Approach

- Transition away from existing wells due to diminishing source capacity and water quality concerns (keep them as emergency source until no longer needed)
- Utilize new wells to satisfy existing demand and provide limited future capacity
- Provide treatment for hardness at new wells
- Pursue additional source based on future development needs

# Project Costs

- Total Project Cost (Bond Amount): \$1.5M
- Max Rate Increase from Debt: \$125/year
- Ion Exchange O&M Costs: \$17,800/year
  - @721 EUs Treatment O&M=\$24/year per EU
- Max Total Rate Increase: \$149/year
- Town to implement water allocation process to offset rate increase; also may utilize MTBE settlement funds
- Note: Typical home softener costs range from \$100 to \$200/year

# Project Financing

- The Town has applied for loan funding through the Vermont DWSRF program
- Project is on the State's Funding Priority List and is eligible to receive a DWSRF loan at 3% for 20 years
- \$1.5M debt service to be paid by the current and future connected users with no impact to property taxes

# Bond Vote

- Authorization to borrow \$1.5M to fund increased well water capacity and treatment for the Town's water system

**Vote Tuesday, November 4, 2014**

Polls open from 7 am to 7 pm at Town Hall

# Questions?

