Point Reyes System Water Quality Update

June 25, 2019

Distribution System

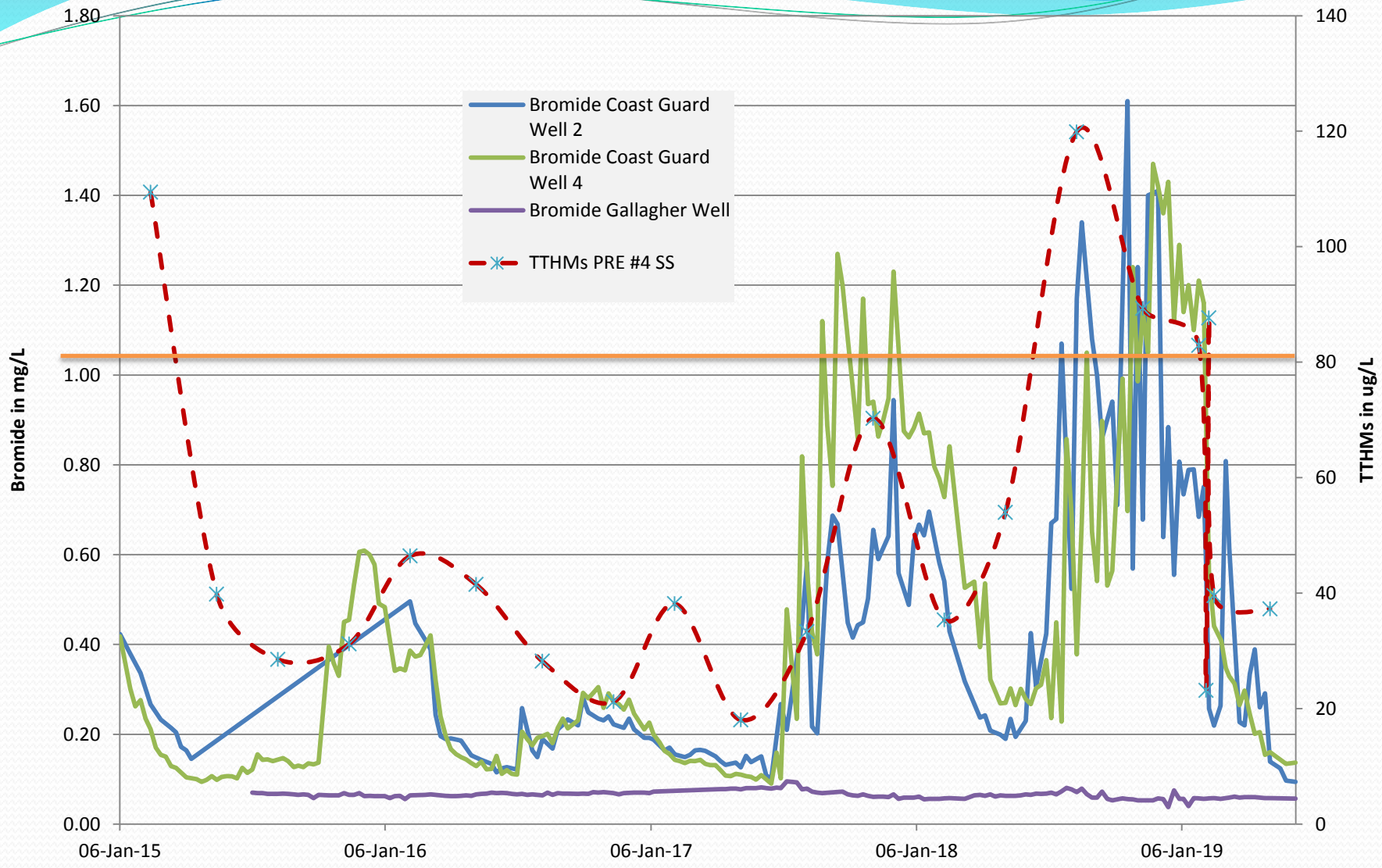
- High water-age monitoring site for disinfection byproducts:
  - Operational evaluation level exceeded in the 2018, fourth quarter sample
  - Several operation changes were made immediately bringing down the DBPs
  - NMWD contracted with West Yost Associates to develop a medium-range plan to remove DBPs
  - Plans for the treatment system currently being developed

Short Term Operational changes

- Use of Gallagher well as the primary source
- In-tank sprayers for DBP removal retrofitted with high efficiency nozzles
- Chlorine dosing at treatment plant and booster station lowered and optimized
- Increased monitoring for DBPs as well as bacteria
- Increased tank turnover rate by adjusting set points and the infrequent use of flushing as appropriate

Source Water

- Coast Guard wells
  - Wells flushed at well heads during wet season- high freshwater recharge
  - Salinity has dropped 90% since the beginning of the year
  - Bromide concentration is moderate and close to baseline
- Gallagher well
  - Pump replaced and well cleaned May/June 2019
  - Production capacity increased by ~50%


Bromide Coast Guard Well 2
Bromide Coast Guard Well 4
Bromide Gallagher Well
TTHMs PRE #4 SS
Bromide in mg/L
TTHMs in ug/L
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
140
120
100
80
60
40
20
0
06-Jan-15
06-Jan-16
06-Jan-17
06-Jan-18
06-Jan-19

Ongoing Progress

- Consulting engineers West Yost Associates has submitted their report on treatment system options to reduce DBPs in the distribution system
- NMWD now organizing specifications that will be used in design and vetting design/build firms to construct treatment system
- NMWD continuing work on right-of-way acquisition for second well adjacent to the Gallagher well