

Horsham

Water Quality Update

July 11, 2018

Boil Water Advisory Update:

- Completed root cause analysis identifying corrective actions to be taken
- Submitted report to DEP identifying corrective actions to be taken
- Performed sampling of Well 9 to restore additional supply option
- Completed update of reverse 911 system
- Updated callout parameters relative to critical alarms –both Aqua and HWSA will be notified
- Established internal protocol relative to SCADA operation – use of “HAND, “HMI”

Boil Water Advisory Update:

- Reprogrammed SCADA Trending function to show real-time data up to last polling cycle and the creation of an “ad hoc” report application
- Reviewed PA Groundwater Rule regulations and reporting requirements with key staff
- Installed new cable for level transducer at Well 40, awaiting testing by SCADA contractor
- Engaged a third party electrical/control system engineer to evaluate current SCADA setup, awaiting scheduling
- Began coordinated effort with Aqua to improve operational communication and update well operations SOPs
- Developing list of outstanding SCADA control/programming issues to discuss with SCADA contractor

Short Term Remediation Action Plan:

- HWSA will be following up with DEP on their two requests:
 - to have resin at Wells 10, 17 and 21 for the permanent systems.
 - to allow temporary system at Well 10 to be resin only when put back on the system
- Carbon was changed out at Wells 21 and 26.
- Next carbon change out will be Well 17.
- Well 7 May test result: 6.8 ppt combined
- Aqua PA interconnect last test result: 14 ppt combined
- Looking at possibly putting Well 9 back on-line.

Long Term Remediation Action Plan:

- Contractor is moving along with the “Group 1” permanent treatment systems at Wells 2, 20 and 22.
 - Construction expected to be completed in September
 - Expect operations permit by end of the year
- “Group 2” permanent systems include Wells 4 & 19 and the Aqua Interconnect. Well 4 and 19 are now under construction. Aqua PA interconnection construction is expected to start mid-summer. Group 2 systems are expected to be operational in 2019.
- All main extensions are complete
- NWWA interconnection on County Line Rd: HWSA is waiting for an operational permit from DEP.

- Private Wells:
 - No change since your last update in March, total remains at 103 (Navy - 98 and NGB - 5)
 - Phase III has been given Notice to Proceed & is expected to be done by the start of school in the Fall. It includes 4 properties: 2 on Easton Rd and 2 on Maple Ave.
- Park Creek Treatment Plant Wastewater:
 - Effluent monitoring results averaging 26 ppt combined.

- Stormwater:

- Horsham Air Guard Station:

- Treatment system for groundwater/stormwater has been installed and became operational on Oct. 2, 2017.
 - First few months system filtered 95% of PFOA and PFOS
 - In January, test results showed only 60% of PFOA and PFOS being filtered
 - Breaking through too quick because the PFC levels are so high and the high organic content inherent in surface water is fouling the filters.
 - HAGS will be installing a filter in the next couple of months to remove organics before the carbon filter

- Township and HLRA have expressed their concerns to the Navy regarding the stormwater that is continuing to leave the base property along Keith Valley Rd.

- Letter sent to Navy from the Township on March 22, 2018. Navy written response received on April 16, 2018.
 - Township meet with the Navy on April 24, 2018.
 - Navy main focus is groundwater but still addressing stormwater.
 - Looking to raise an inlet by 3 to 4 feet in a rear basin to hold more water
 - Looking into putting in a culvert connecting two basins since one basin doesn't hold as much water
 - Will be doing soil removal around the former Navy firehouse. Starting in June and July.
 - Surveying approximately 3,300 feet of stormwater pipes via TV inspections in 2018
 - Navy has requested funding to include a pilot study in two locations that may include a pump and treat system.

Recap of Drinking Water Efforts:

- In June, joint letter sent from Township & HWSA to the EPA and ATSDR to release the draft ATSDR report immediately
- Currently, approximately 86% of water serving the public system is either filtered or supplied by NWWA.
- As of this update, the system-wide average in the public system is approximately 4 ppt combined. This is an average that is determined using a mass calculation formula.
- Horsham Township continues to achieve more stringent water quality standards than those set by EPA and DEP.

Our Public Water System:

- We continue to ensure our residents have a safe and adequate supply.
- We continue to achieve more stringent water quality standards than those set by EPA and DEP.
- We are using the best available water treatment technology and were even the first in the State to be issued a public water supply permit to use a state of the art technology, Resin.
- We have a team of well trained and experienced professionals.

Communication:

- Monthly updates at Council's second Wednesday public meetings
- Township website: www.horsham.org
- HWSA website: www.horshamwater-sewer.com
- Water hotline: 215-907-0034
- Follow us on Twitter at @HorshamTownship
- Like us on Facebook at Horsham Township
- Sign up for email updates at water@horsham.org