Hollingsworth Drive Groundwater Assessment Summary

MARION COUNTY PUBLIC HEALTH DEPARTMENT
Prevent. Promote. Protect.

Background
As a follow up to a 2016 well survey, the Hollingsworth Drive neighborhood was assessed to evaluate groundwater quality of private wells. This neighborhood is in Pike Township east of New Augusta neighborhood and included homes along the 7100-7400 blocks of Hollingsworth Dr. Letters requesting well samples were sent to 26 properties with a door-to-door survey following. Samples were taken in the summer of 2022 and results were compared to levels found in 2016.

Survey Results
A total of 26 properties were surveyed. Sixteen homes responded to the survey and were sampled, resulting in a 61.5% response rate.

Sampling Results
Bacteria
E.coli bacteria were found in one well and coliform bacteria were present in nine wells. The unsatisfactory rate is 56%, which is consistent with past well surveys. Chlorination instructions were sent out with the lab reports and follow-up inspections were scheduled.

VOCs
No volatile organic compounds were found above detection limits in any of the samples taken.

Anions
Well samples were tested for the following anions: Chloride, Fluoride, Nitrates, Nitrites, Phosphates, and Sulfates. All anions were below the Maximum Contaminant Levels (MCLs).

Metals
Samples were analyzed for the following metals: Arsenic, Barium, Cadmium, Chromium, Mercury, and Lead. Arsenic levels exceeded the MCL of 10 parts per billion (ppb) in three wells, or 19% of residences. The average of these levels was 11.5 ppb, just above the limit.

Conclusions
The primary groundwater contaminant in the Hollingsworth Drive neighborhood is coliform bacteria. In 2016, only seven wells were tested and all samples had bacterial contamination. By re-surveying the neighborhood and collecting additional samples, the unsatisfactory rate was found to be more similar to county-wide averages. Also, resident participation was higher from the door-to-door attempts compared to responses from letters or postcards.

Map of surveyed area

Legend:
- Surveyed
- Sampled