

Highgate Neighborhood Groundwater Assessment Summary

Background

The property located at 7150 N. Graham Rd. is the site of a former drycleaner. The property has entered into IDEM's Voluntary Remediation program due to known contamination of soil and groundwater. Contaminants of concern include PCE, TCE, vinyl chloride, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and 1,2,3-trichlorobenzene. Due to groundwater contamination at this site, a well survey was conducted of the neighborhood to the northwest. The neighborhood boundaries are approximately 75th St to the north, Graham Rd to the east, 71st St to the south, and Layman Ave to the west (see attached map). Letters requesting well samples were sent to 74 properties in June 2018.

Survey Results

74 residential properties were surveyed in this project. 37 properties responded and were sampled, resulting in a 50% response rate.

Sampling Results

Bacteria

E.coli bacteria were found in one sample and total coliform bacteria were present in 11 wells. Samples were unsatisfactory for 11 properties, resulting in a 29.7% unsatisfactory rate. This rate is consistent with those for 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 anion levels were below the Maximum Contaminant Levels.

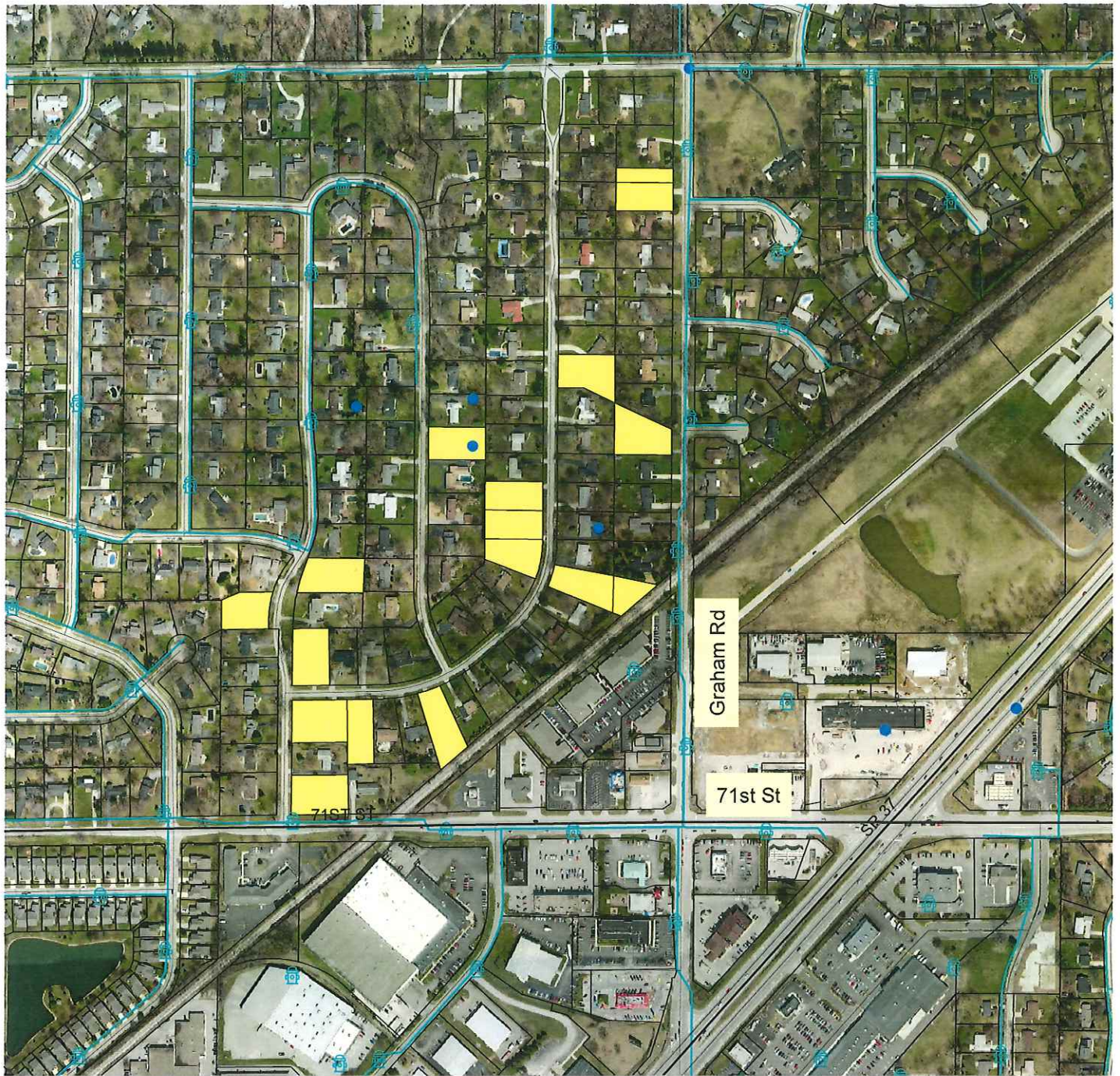
Metals

Samples were analyzed for the following metals: Arsenic, Barium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Selenium, Thallium, and Zinc. All heavy metal levels were below the Maximum Contaminant Levels.

Conclusions

In conclusion, the only contaminant found was bacteria, which is consistent with routine sampling throughout the county. None of the contaminants of concern were detected in any of the samples taken. At this time, there does not appear to be any influence from the former drycleaner on the groundwater in this neighborhood.

Water Mains and Properties Sampled



Legend

- Water Mains
- Water Hydrants
- Allwells.shp

0 0.05 0.1 0.2 Miles

