

# 2021 Collier Street Groundwater Assessment Summary

## Background

Chlorinated solvents have been detected in the groundwater of neighborhood nearby, so a survey was conducted to determine if any wells on Collier Street are impacted. The volatile organic compounds (VOCs) of interest are 1,1,1-Trichloroethane, Tetrachloroethene, and 1,4-Dichlorobenzene. The survey area included the 600-1000 blocks of Collier St, just south of Washington St, and was conducted over the summer of 2021.

## Survey Results

A total of 38 properties were selected for this survey and invitation letters were mailed out. Of the 38 homes, one was vacant and only one responded to the letters and following door-to-door survey. This resulted in a 2.7% response rate and was the limiting factor in this assessment.

## Sampling Results

### Bacteria

No *E. coli* or coliform bacteria were detected in the sample collected.

### 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, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Selenium, Thallium, and Zinc. No metals were detected above the MCL.

## Conclusions

This survey attempted to find if a plume of chlorinated solvents has migrated to Collier St. There were no volatile organic compounds detected in the one sample collected. However, due to the lack of participation it is difficult to determine if there is any groundwater contamination in these wells. This information was related to IDEM, which is actively investigating the plume to the west of this neighborhood.