



September 2019

Air Quality in Winton Terrace and Spring Grove Village

Recent air studies show that air quality in the Winton Terrace and Spring Grove Village (Winton Place) meets air quality standards that protect human health. In addition, according to the U.S. EPA Toxic Release Inventory, air emissions from the 45232 ZIP code have dropped by more than 80 percent since 2007.

Neighborhood Monitoring History

During the last two decades, residents in the Winton Terrace, Winton Hills and Spring Grove Village areas have expressed concerns about air quality to the Southwest Ohio Air Quality Agency (SWOAQA). Several air studies have been conducted to determine if air quality protects people's health and the environment.

In 1997 and 1998, U.S. EPA conducted a comprehensive air monitoring study in Winton Place and Winton Hills due to community concern. There were five separate monitoring locations in the Winton Place/Winton Hills community for this study. Volatile organic compounds, semi-volatile compounds, metals, acid gases and ammonia were monitored. After reviewing all the data, U.S. EPA stated, "It is also important to understand that the concentrations found in the Winton Hills/Place communities are not uncommon compared to other urban communities".

In 2007, SWOAQA contracted with an outside toxicology consultant (Toxicology Excellence for Risk Assessment) to review the 2007 air toxics data collected by the SWOAQA in Addyston, Carthage, Lower Price Hill, Reading and Winton Place. The study found Winton Place had the lowest additional risk of all five sites based on the data. It also concluded that none of the chemicals had an individual cancer risk greater than 1 in 100,000, which is considered an acceptable risk level by U.S. EPA.

Recent Monitoring

Most recently in December 2018, SWOAQA, in coordination with Ohio Environmental Protection Agency (Ohio EPA), conducted air quality monitoring in the area. This air quality monitoring included both portable, real-time "loop" monitoring and fixed-site monitoring.

Loop monitoring involved measuring total volatile organic compounds using a portable instrument at 20 locations throughout Winton Terrace, Winton Hills, Spring Grove Village, Elmwood Place and St. Bernard. This air monitoring was conducted from December 2018 through August 2019. During the loop monitoring, no values exceeded 0.500 parts per million (ppm) action level for a sustained period of one minute; therefore, no additional air samples were taken as a result. Also, eight 24-hour air samples were collected at two different locations, one in Winton Terrace and the other in Spring Grove Village. These air samples were analyzed for more than 60 different volatile organic compounds (VOCs). These samples were taken when the winds were blowing from the industrial facilities toward the community. One fixed monitoring site was located on Craft Street in Winton Terrace and the other was on Circle Avenue in Spring Grove Village. These samples were taken in December 2018, January 2019, July 2019 and August 2019. Out of the 60 VOCs sampled, no compounds were detected that exceeded specified minimum risk levels.

Ohio EPA and Ohio Department of Health have reviewed the above air monitoring results and concluded that the detected levels do not pose a concern to public health.

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Neighborhood Air Canisters Available

SWOAQA has placed three canisters with instructions in the neighborhoods so citizens can take an instantaneous air sample when odors are present. To date, no citizen air canister samples have been taken. The three canisters in the neighborhood for citizens to take an instantaneous sample are located at the following:

- Winton Hills Academy, 5300 Winneste Avenue
- Winton Hills Recreation Center, 5170 Winneste Avenue
- Cincinnati Fire Department, Station 38, 730 Circle Avenue

These canisters will remain at the above sites through December 2019.

Additional Air Quality Information

Additional information regarding air quality in the Winton Terrace area since 2007 based on Title V permit emission reports includes:

- sulfur dioxide emissions from major industries in the Winton Terrace area have decreased by more than 99 percent;
- fine particulate emissions from major industries in the Winton Terrace area have decreased by more than 86 percent;
- nitrogen oxide emissions from major industries in the Winton Terrace area have decreased by more than 80 percent;
- volatile organic compound emissions from major industries in the Winton Terrace area have decreased by more than 42 percent; and
- lead emissions from major industries in the Winton Terrace area have decreased by over 99.9 percent.

Contact

SWOAQA will continue to monitor air quality to follow up on complaint investigations. To register an air quality complaint, please visit www.southwestohioair.org or call SWOAQA at 513-946-7777. For more information please feel free to contact Brad Miller with SWOAQA at 513-946-7777 or brad.miller@hamilton-co.org or Heather Lauer at Ohio EPA at 614-644-2160 or heather.lauer@epa.ohio.gov. In addition, data collected from January 2019 through August 2019 is posted on the SWOAQA website: www.southwestohioair.org/monitoring/winton_terrace.