

California Ambient Dioxin Air Monitoring Program - Site Summary -

Wilmington

This page updated on November 3, 2003

Site Location:

Wilmington is located near the ports of Los Angeles and Long Beach in the south harbor area of Los Angeles County. Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) will be conducted at the Wilmington Park Children's Center located at 1419 East Young Street (adjacent to Wilmington Park Elementary School).



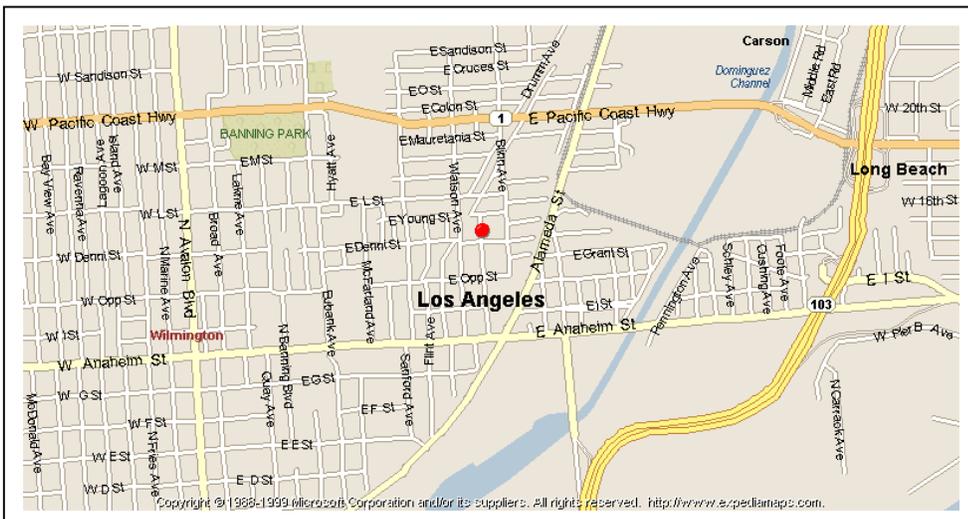
Site Approval:

In the spring of 2001 representatives for the Los Angeles Unified School

District granted the Air Resources Board (ARB) permission to install an ambient air monitoring station on the school campus.

Monitoring Start Date:

Collection of samples for ambient air quality analysis for CADAMP began in December 2001 in Wilmington.



Reason for Choosing Wilmington:

Wilmington was chosen as one of the ten sites for CADAMP because of the location of high-risk facilities within the community and the proximity of those high-risk facilities to schools in the area. Wilmington is home to multiple oil refineries with a combined refining

capacity of over 250,000 barrels per day. Wilmington is also situated near the ports of Los Angeles and Long Beach, which are sources of diesel and fugitive emissions from bulk transport activities. There are an estimated 12 schools and childcare facilities in the area. The number of children attending Wilmington

Park Children's Center, plus those attending nearby Wilmington Park Elementary, are approximately 1400.

Emission Sources:

The primary sources of emissions impacting the Wilmington area are refineries and the nearby port facilities. Other sources of air pollution in Wilmington include neighborhood-scale sources such as dry cleaners, chrome plating operations, and service stations.

Monitoring Parameters:

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans, congener specific PCBs, and PBDEs. A total of 75 compounds will be evaluated each month.

Monitoring Schedule:

The dioxin sampler will be run for 28 consecutive days each month for the duration of the project. Sampling media consists of quartz fiber filters, polyurethane foam (PUF), and XAD resin. Filters will be collected and replaced every 6th day. PUF/XAD cartridges will be collected on the 28th day. Filters, PUF, and XAD will be composited for a single monthly sample analysis.

Anticipated End Date:

The ARB anticipates that CADAMP ambient air monitoring will end in Wilmington in 2004.

Agencies/Resources/Roles:

The ARB is the lead agency for carrying out the California Ambient Dioxin Air Monitoring Program and has overall responsibility for the study. The SCAQMD provided assistance in selecting the Wilmington CADAMP site. Staff of the ARB's Air Quality Surveillance Branch will perform all CADAMP sample collection tasks. A laboratory under contract to the ARB will perform analysis of CADAMP samples collected in Wilmington. Staff in the ARB's Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating sampling efforts, tracking the project, validating the data, and conducting quality control and quality assurance activities. The ARB's Stationary Source Division (SSD) will evaluate ambient air concentrations to prioritize risk management strategies.

Connection to Other Air Resources Board Programs:

In addition data collected at the Wilmington Park Elementary School for the Children's Environmental Health Protection Program under Senate Bill 25 (SB25), ambient dioxin, furan, PCB and PBDE concentrations at the Wilmington Park Children's Center, will be used to support the Community Health Program (<http://www.arb.ca.gov/ch/ch.htm>). Data collected at Wilmington will give local residents and decision-makers better information on pollutant exposures and their associated health risks and will also provide information for the ARB's program to mitigate the health risks from diesel particulate (<http://www.arb.ca.gov/diesel/background.htm>).

Additional exposure data will be collected at the Wilmington Park Elementary School by researchers from the Southern California Particle Center and Supersite (SCPCS). The mission of this research-based group is "...to identify and conduct the highest priority research for airborne particulate matter (PM) to ensure protection of the public health." The SCPCS data from the Wilmington Park Elementary School will enhance data collected by the ARB for the Children's Environmental Health Protection Program and CADAMP.