

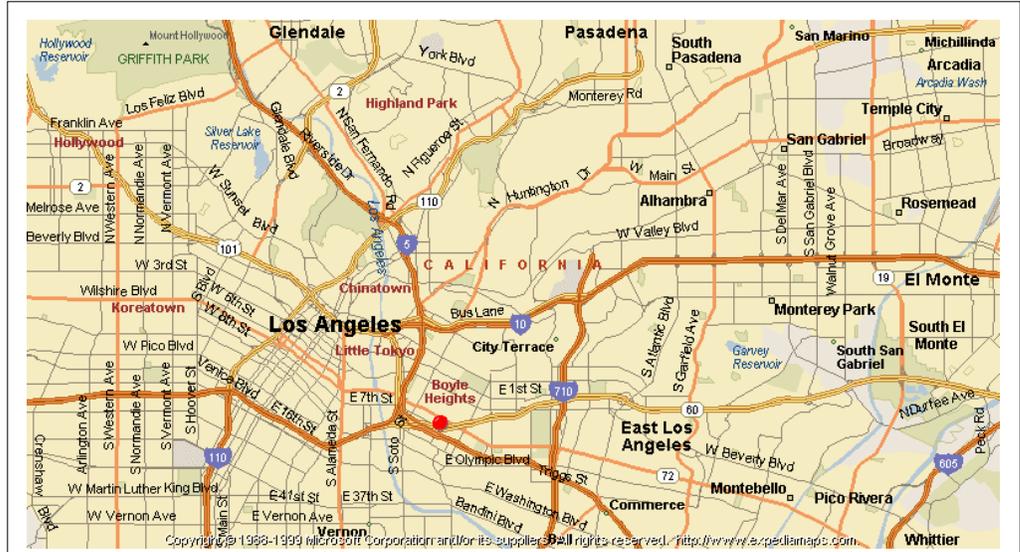
California Ambient Dioxin Air Monitoring Program - Site Summary -

Boyle Heights

This page updated on November 3, 2003

Site Location:

The East Los Angeles Mathematics, Science and Technology Center, located in the Boyle Heights section of Los Angeles, is one of ten sites chosen for the California Ambient Dioxin Air Monitoring Program (CADAMP). The site is located at 961 Euclid Avenue in the residential area of Boyle Heights and is approximately one-half mile downwind of the convergence of four major Los Angeles area freeways.



Site Approval:

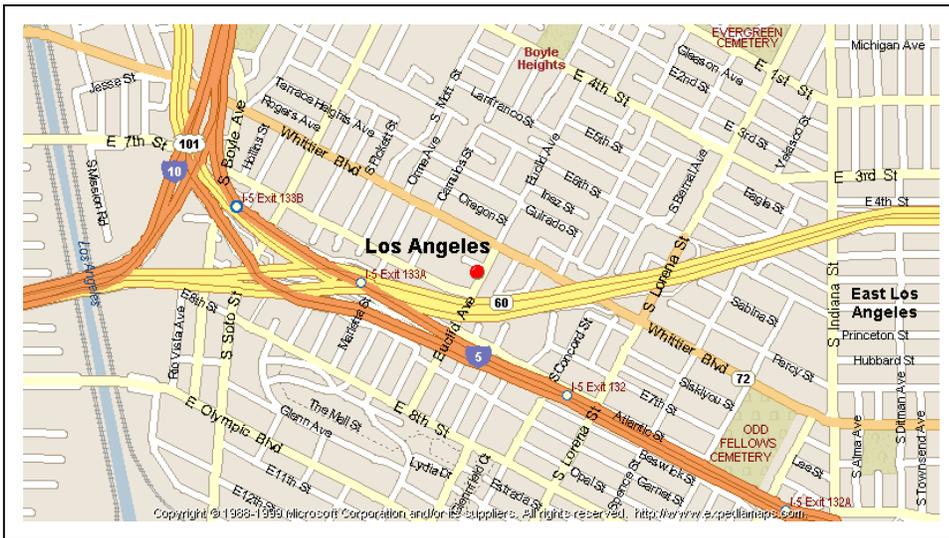
Representatives of the Los Angeles Unified School District gave the Air Resources Board (ARB) permission to install an air monitoring instruments on this property in 2000.

Monitoring Start Date:

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

Reason for Choosing Boyle Heights:

Boyle Heights was chosen because of its proximity to mobile source emissions and the because of the high number of children living in the community. There are approximately 16 schools and childcare centers (public and private) in the area encompassed by the 60, 5, 10 and 101 freeways. The location of the CADAMP monitoring site, is approximately one mile from Hollenbeck Middle School, which has a student population of 2200. Theodore Roosevelt Senior High



School, located directly across from Hollenbeck, is one of the largest high schools in Los Angeles County with an enrollment of over 5000.

Emission Sources:

In addition to mobile source emissions, point sources in and around Boyle Heights were determined through emissions inventory data and physical survey of the area. Major sources identified include printing and refinishing facilities, trucking operations, large-scale boilers, and textile facilities. Other sources of air pollution in Boyle Heights include neighborhood scale sources such as dry cleaners 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 measured 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. Meteorological data will be collected continuously.

Anticipated End Date:

The ARB anticipates that the ambient dioxin air monitoring will end at the East Los Angeles Mathematics, Science and Technology Center in 2004.

Agencies/Resources/Roles:

The ARB is the lead agency for the California Ambient Dioxin Air Monitoring and has overall responsibility for the project. The South Coast Air Quality Management District (SCAQMD) provided assistance in selecting the East Los Angeles Mathematics, Science, and Technology Center station. A laboratory under contract to the ARB will perform analysis of CADAMP samples collected at the site. Staff in the ARB's Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating the 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 to CADAMP monitoring, the East Los Angeles Mathematics, Science, and Technology Center served as a satellite site for monitoring conducted under the Children's Environmental Health Protection Program under Senate Bill 25 (SB 25) from February 2001 through May 2002.

Data collected at the Hollenbeck Middle School and the East Los Angeles Mathematics, Science, and Technology Center are useful for evaluating the exposure of children to criteria pollutants, non-methane hydrocarbons (NMHC), and air toxics. Data collected will be used to support the ARB's Community Health Program (<http://www.arb.ca.gov/ch/ch.htm>) and will provide information for the ARB's ongoing efforts to mitigate the health risks from diesel particulate (<http://www.arb.ca.gov/diesel/background.htm>). The Planning and Technical Support Division of ARB is coordinating the Community Health Program and will use the data generated at the Hollenbeck Middle School monitoring station to support other Community Health studies currently under development. Public outreach for the Community Health Program is being coordinated by the Planning and Technical Support Division.