

California Ambient Dioxin Air Monitoring Program Site Summary

Sacramento

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Site Location:

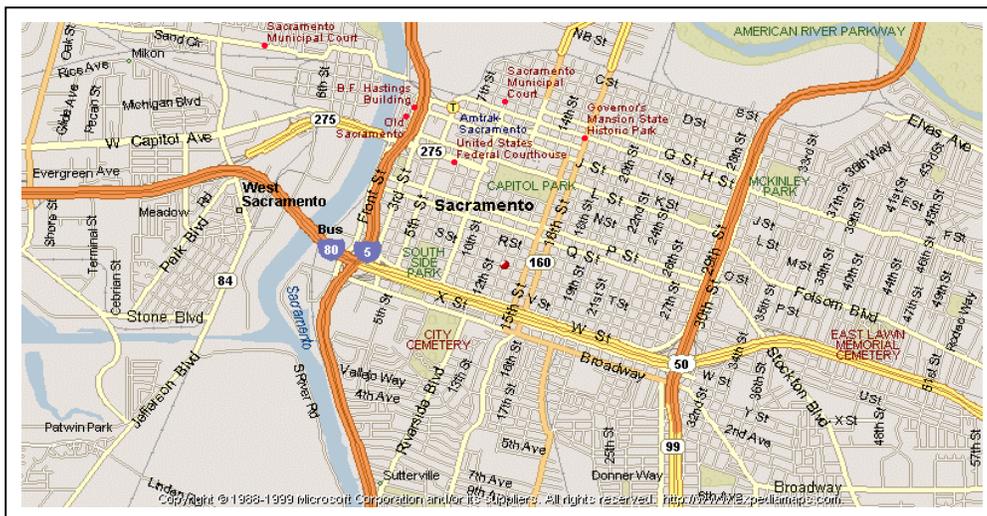
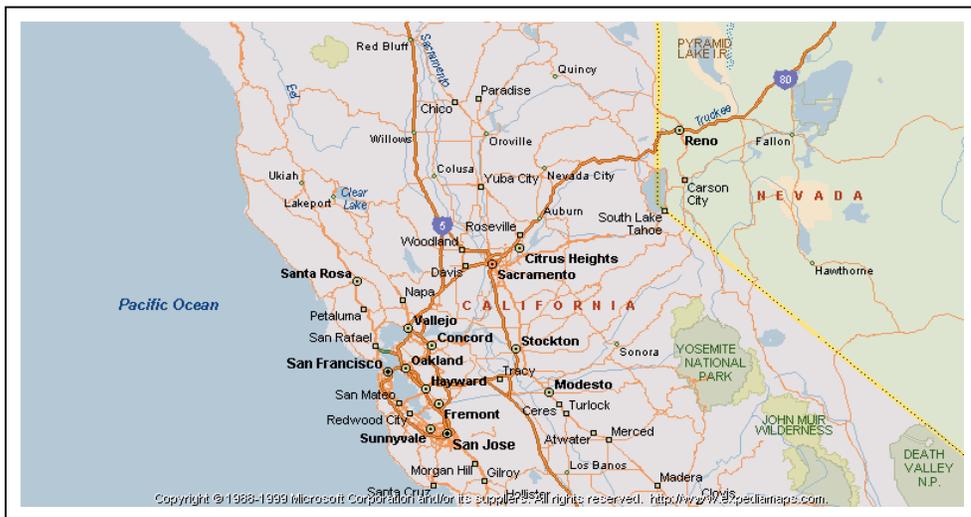
Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) will be conducted at 1309 T Street in Sacramento. This site is the location of the Air Resources Board (ARB) Monitoring and Laboratory Division (MLD). At this location comprehensive air monitoring is conducted regularly for air toxics and criteria pollutants.

Monitoring Start Date:

Collection of samples for ambient air quality analysis for CADAMP at Sacramento began in January 2003.

Reason for Choosing Sacramento:

Sacramento is a high growth metropolitan area with a population of approximately 1.7 million. Sacramento is the state capital with a mix of light industry, commercial, and residential uses. Sacramento was chosen as one of the sites for dioxin monitoring because it is located near four major freeways, I-80, I-5, Highway-50 and Highway 99. Within the Sacramento area there is an international airport, rail yards, and train stations. The Sacramento and American Rivers flow through Sacramento and are heavily used for recreational boating. The Port of Sacramento is located on a deepwater channel on the Sacramento River and is used for international shipping.



Emission Sources:

Emission sources in the vicinity include multiple freeways, neighborhood-scale sources such as dry cleaners, auto body repair shops, plating shops, medical waste incinerators, and service stations as well as mobile sources such as trains, planes, and ships.

Monitoring Parameters:

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans and congener specific PCBs. A total of 31 compounds will be evaluated each month. Meteorological parameters will include wind speed, wind direction, ambient temperature and relative humidity.

Monitoring Schedule:

The dioxin sampler will be run for 24 days each month for the duration of the project. Quartz fiber filters and polyurethane foam (PUFs) comprise the sampling media. Filters will be collected and replaced every 6th day. PUFs will be collected on the 28th day. Filters and PUFs will be composited for a single monthly sample analysis. Meteorological data will be collected continuously.

Anticipated End Date:

The ARB anticipates that ambient dioxin air monitoring will continue at the Sacramento site for two years, ending after December 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 AQSB staff will perform all routine sample collection tasks. A laboratory under contract to ARB will perform analysis of samples collected at Sacramento. Staff in the ARB Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role to coordinate sampling efforts, track the project, validate the data and conduct quality control and quality assurance activities. ARB's Stationary Source Division (SSD) will perform risk assessment. Data will be shared with the U.S. EPA and the Sacramento Metropolitan Air Quality Management District (SMAQMD). SSD will post results on the internet for the public.

Connection to Other Air Resources Board Programs:

The ARB is collecting samples routinely for air toxic measurements as part of their air toxic network at the Sacramento site. Monitoring is currently being performed for CO, NO₂, ozone and particulates (PM₁₀ and PM_{2.5}).

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