California Environmental Protection Agency
Air Resources Board

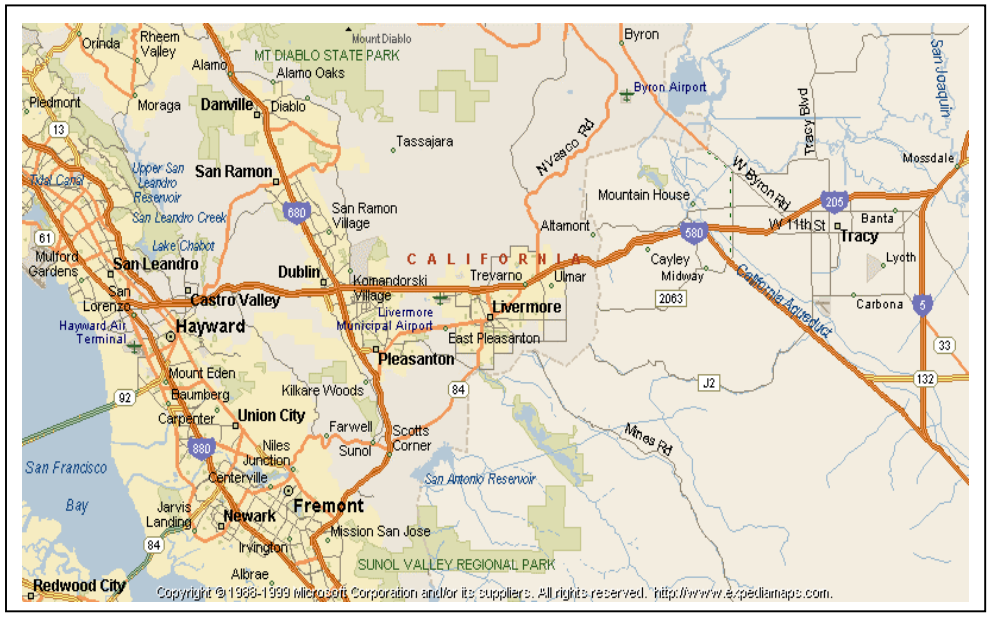
California Ambient Dioxin Air Monitoring Program
- Site Summary -

Livermore

This page updated on November 4, 2003

Site Location:
The monitoring site for the California Ambient Dioxin Air Monitoring Program (CADAMP) in the Livermore area will is located at 793 Rincon Avenue in Livermore. This location is in a highly populated, light industrial area near two major freeways. This site is part of the Bay Area Air Quality Management District's (BAAQMD) routine monitoring network for criteria and toxic pollutants.

Site Approval:
With the BAAQMD's approval, the CADAMP dioxin sampler was placed at the BAAQMD's routine criteria and toxic monitoring site in Livermore.



Monitoring Start Date:
Collection of samples for analysis under CADAMP began in December 2001.

Reason for Choosing Livermore:
Livermore was chosen as one of the ten sites for dioxin monitoring because it is impacted by several categories of pollutant emissions and because of the high population in the area.

Livermore is located near two high traffic freeways, I-680 upwind and I-580 which transects the Livermore Valley. This site is in an area with the highest number of days

exceeding the state ozone air quality standard and reported the second highest annual average concentration of PM10 in the San Francisco Bay Area Air Basin (1999). This fast growing area (Tri-Cities Area) is located downwind of emissions from the central Bay Area.

Emission Sources:
Major freeways to the north and west of Livermore are significant sources of vehicle emissions. Other sources include the Livermore Municipal Airport located 3 miles Northwest of the city of Livermore.

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 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 CADAMP monitoring at the Livermore site will end 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 Bay Area Air Quality Management District (BAAQMD) provided assistance in selecting the Livermore station and performs all CADAMP sample collection tasks. A laboratory under contract to the ARB will perform analysis of CADAMP samples collected at Livermore. 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 CADAMP sampling effort, 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 Monitoring Programs:
The BAAQMD routinely collects samples for air toxic measurements as part of their air toxic network at the Livermore site. Monitoring is currently being conducted for NO2, ozone, particulates (PM10, PM2.5, TEOM), total hydrocarbons and methane.