



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# Monta Vista Park Air Monitoring Station

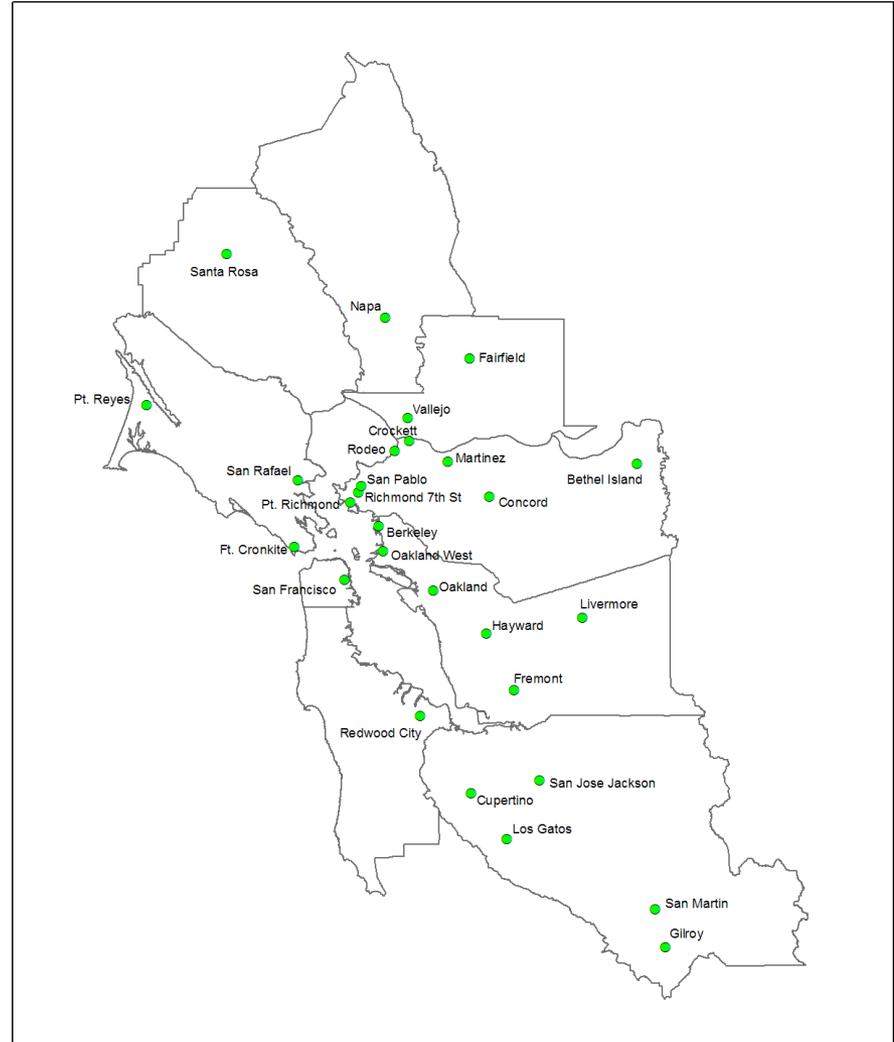
City of Cupertino Neighborhood Meeting  
April 29, 2010

Eric Stevenson, Director of Technical Services  
Bay Area Air Quality Management District

# Air Monitoring Facilities

## Two Special Study Sites Currently in Cupertino

- Stevens Creek Elementary School
  - EPA School Air Toxics Program measuring hexavalent chromium
- 22638 Stevens Creek Blvd.
  - Measuring Particulate Matter (PM) Impacts





# Sampling Needs

- **Secure location with unobstructed air flow**
- **Near Lehigh Cement facility**
- **Representative of the community**
- **Power and phone**
- **Cooperation with other local government agencies to aid in expedited permitting/operation**
- **Location that meets EPA siting criteria**
- **Able to operate for a minimum of one year**

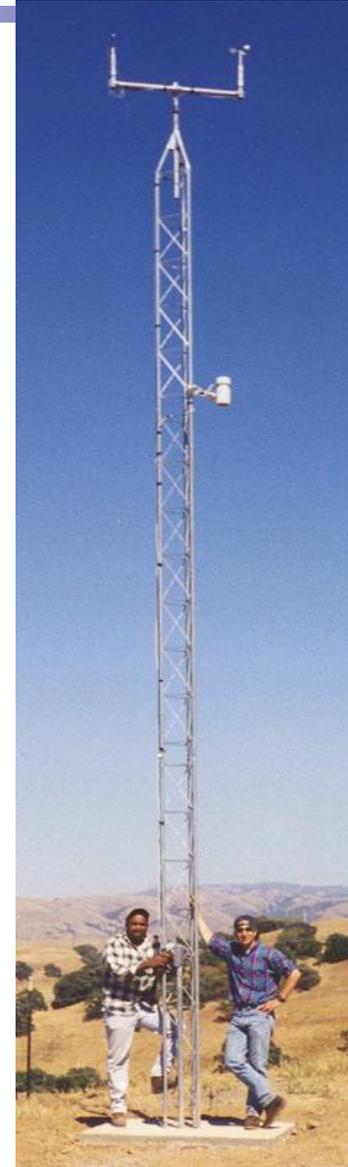
# Air Monitoring Trailer



- Continuously Measured Compounds
  - Particulate Matter 2.5 Microns or Less ( $PM_{2.5}$ ), Carbon Monoxide, Methane, Oxides of Nitrogen, Non-Methane Organic Carbon (NMOC), Ozone, Sulfur Dioxide
- Laboratory Analysis
  - Metals (Pb, Mn, Cr, Ni, plus others)
  - Gasses (Benzene, 1,3 Butadiene, Carbon Tetrachloride, Perchloroethylene, Formaldehyde, Acetaldehyde, plus others)
  - Particulate Matter 10 Microns or Less ( $PM_{10}$ )

# Meteorological Tower

- Wind speed and direction
- Aids in identifying potential source of impacts
- Will be secured to limit access
- Located to measure good, unobstructed air flow





# Proposed Location



# Further Information

[www.baaqmd.gov](http://www.baaqmd.gov)

**Bay Area Air Quality Management District**

Spare the Air | **Air Quality** | Meteorology | Map View | Contact Us | **Data Display System**

January 2008

S	M	T	W	T	F	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Stations: Berkeley

**Berkeley**  
Hourly values and 24-hour changes  
Raw data: Unchecked data that may contain errors

**Sunday, January 06, 2008, Ending Hour (PST)**

Station:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily Max	
BAM (PM2.5)	5	7	6	6	7	3	2	4	3	5	6	7	6	3	4	5	9	13	19	11	12	16	21	9	21	13
Carbon Monoxide	-1	1	1		3	3	3	3	3	3	3	3	2	2	2	2	2	5	6	5	4	6	5	5	6	5
Methane	196	199	207		228	236	238	208	203	204	206	203	192	189	189	190	199	204	205	202	204	206	214	201	238	217
Nitric Oxide	0	0	0		3	5	4	2	2	5	4	3	2	1	2	1	3	3	3	1	1	3	3	1	5	3
Nitrogen Dioxide	6	7	5		20	23	23	20	14	16	14	10	8	6	9	12	18	22	21	19	17	23	25	15	25	20
Non-Methane Hydrocarbon	2	4	3		15	13	14	10	6	9	8	4	2	1	2	4	13	12	13	7	12	11	18	7	18	11
Ozone	32	29	32		3	1	4	10	19	17	20	25	30	31	27	23	16	11	12	15	20	11	6	18	32	24
Sulfur Dioxide	0	0	0			0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Temperature	22	23	23		23	23	23	23	23	23	22	22	23	23	23	23	23	23	23	22	22	23	22	22	23	23
Hour:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	1Hr	8Hr



# Potential Metals Analytes

<b>Metal</b>	<b>Symbol</b>	<b>Metal</b>	<b>Symbol</b>
<b>Sulfur</b>	<b>S</b>	<b>Selenium</b>	<b>Se</b>
<b>Vanadium</b>	<b>V</b>	<b>Strontium</b>	<b>Sr</b>
<b>Chromium</b>	<b>Cr</b>	<b>Zirconium</b>	<b>Zr</b>
<b>Manganese</b>	<b>Mn</b>	<b>Molybdenum</b>	<b>Mo</b>
<b>Iron</b>	<b>Fe</b>	<b>Cadmium</b>	<b>Cd</b>
<b>Nickel</b>	<b>Ni</b>	<b>Tin</b>	<b>Sn</b>
<b>Cobalt</b>	<b>Co</b>	<b>Antimony</b>	<b>Sb</b>
<b>Copper</b>	<b>Cu</b>	<b>Platinum</b>	<b>Pt</b>
<b>Zinc</b>	<b>Zn</b>	<b>Lead</b>	<b>Pb</b>
<b>Arsenic</b>	<b>As</b>		