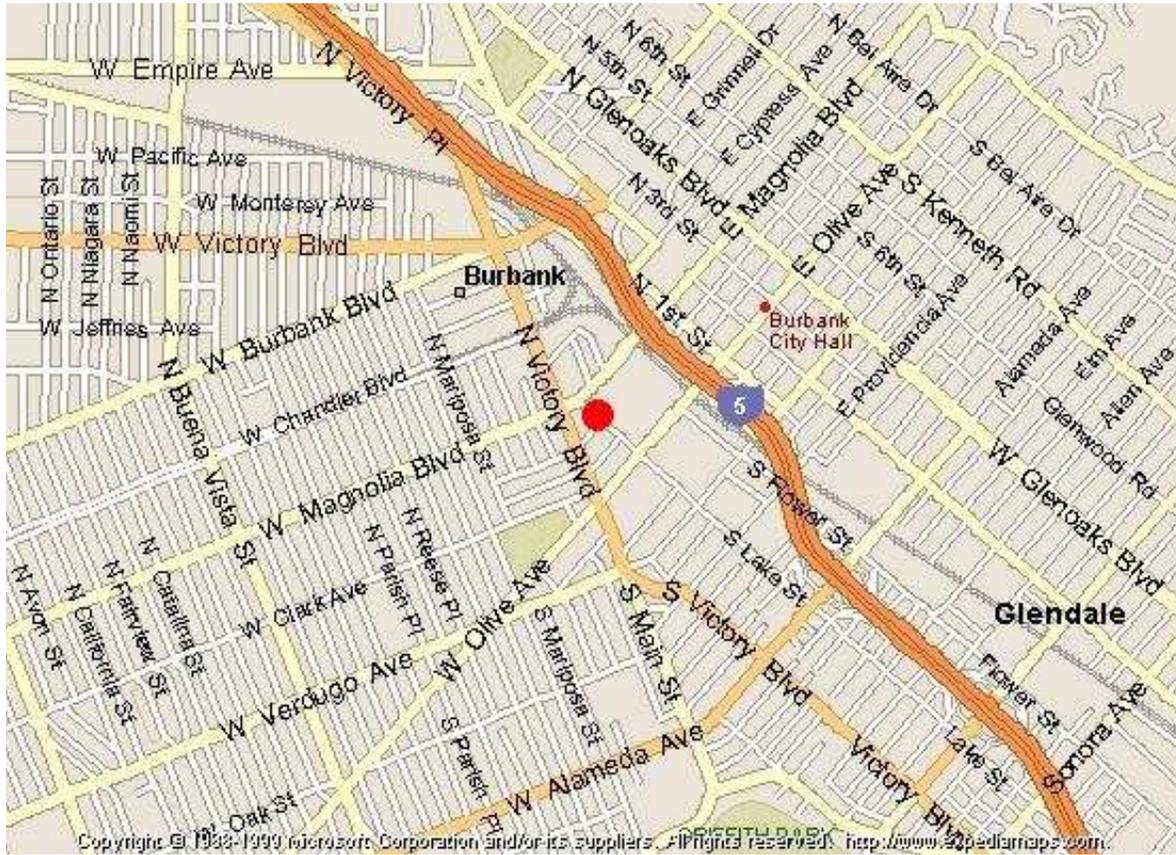


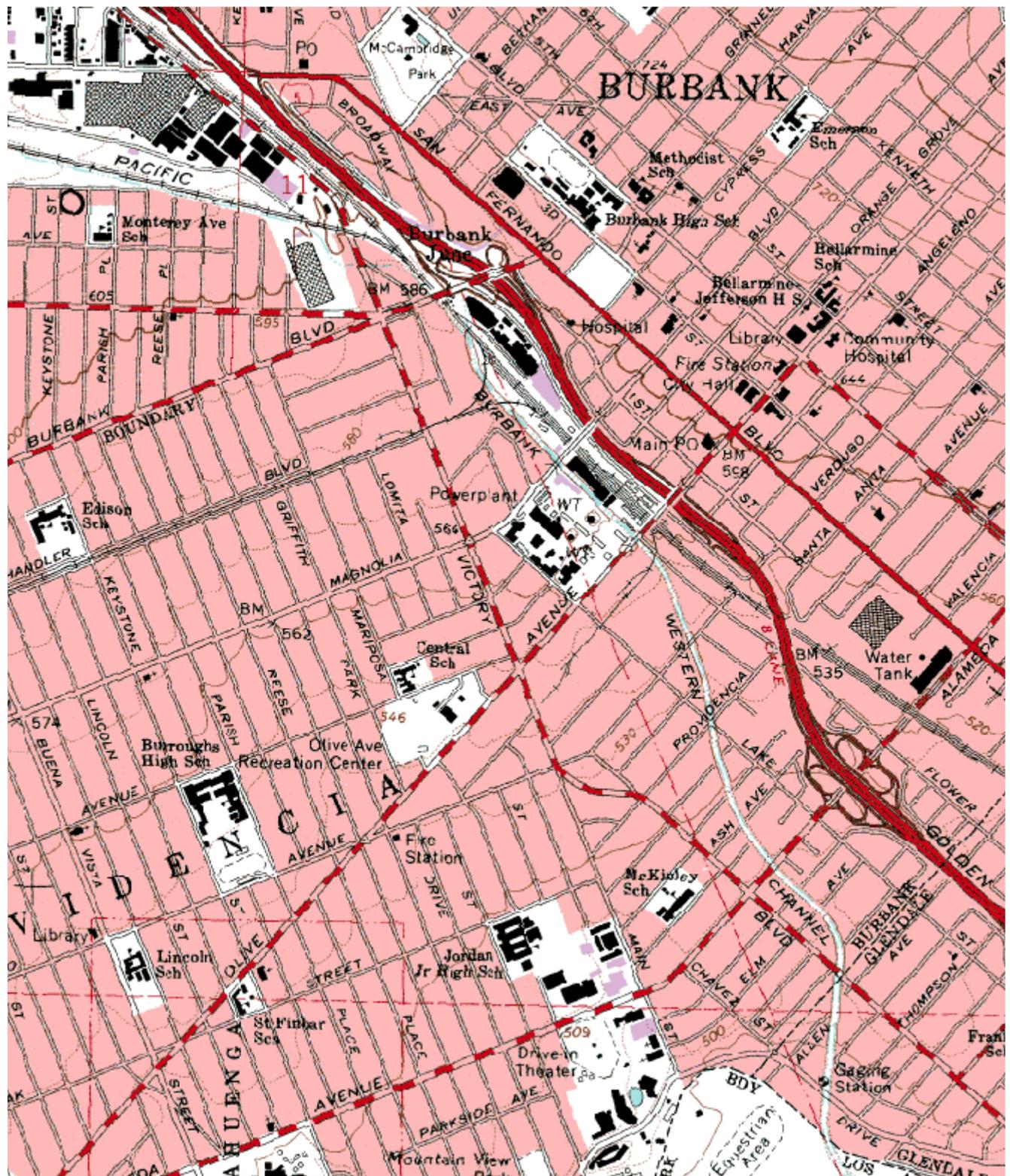
Quality Assurance Site Survey Report for Burbank

Last updated May, 2015



| AQS ID | ARB Number | Site Start Date | Reporting Agency and Agency Code |
|-----------|------------|-----------------|----------------------------------|
| 060371002 | 70069 | 10/1961 | South Coast AQMD (061) |

| Site Address | County | Air Basin | Latitude | Longitude | Elevation |
|-------------------------------------|-------------|-------------|--------------|---------------|-----------|
| 228 W Palm Ave Burbank, CA 91502 | Los Angeles | South Coast | 34° 10' 33"N | 118° 19' 01"W | 171 |



Detailed Site Information

| | | | | |
|---|---|---------------------|-----------------------|---------------------|
| Local site name | Burbank | | | |
| AQS ID | 060371002 | | | |
| GPS coordinates (decimal degrees) | Latitude: 34° 10' 33" Longitude: 118° 19' 01" | | | |
| Street Address | 228 W Palm Ave, Burbank, CA 91502 | | | |
| County | Los Angeles | | | |
| Distance to roadways (meters) | 13.8; 578 | | | |
| Traffic count (AADT, year) | < 2,000 / 2012; I-5/Olive, 215,000, 2011 | | | |
| Groundcover (e.g. asphalt, dirt, sand) | Asphalt | | | |
| Representative statistical area name (i.e. MSA, CBSA, other) | 31080-Los Angeles-Long Beach-Anaheim, MSA | | | |
| Pollutant, POC | Carbon Monoxide, 1 | Nitrogen Dioxide, 2 | Ozone, 1 | Sulfur Dioxide, 2 |
| Parameter code | 42101 | 42602 | 44201 | 42401 |
| Basic monitoring objective(s) | NAAQS | NAAQS | NAAQS | NAAQS |
| Site type(s) | Highest Concentration | Population Exposure | Highest Concentration | Population Exposure |
| Monitor (type) | SLAMS | SLAMS | SLAMS | SLAMS |
| Instrument manufacturer and model | Horiba APMA 360 | Thermo 42i | Teledyne 400E | Thermo 43i-TLE |
| Method code | 106 | 074 | 087 | 560 |
| FRM/FEM/ARM/ other | FRM | FRM | FEM | FEM |
| Collecting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | N/A | N/A | N/A | N/A |
| Reporting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Spatial scale (e.g. micro, neighborhood) | Neighborhood | Neighborhood | Urban | Neighborhood |
| Monitoring start date (MM/DD/YYYY) | 10/1961 | 10/1961 | 10/1961 | 10/1961 |
| Current sampling frequency (e.g. 1:3, continuous) | 1:1 | 1:1 | 1:1 | 1:1 |
| Calculated sampling frequency (e.g. 1:3/1:1) | N/A | N/A | N/A | N/A |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 |
| Probe height (meters) | 6.8 | 7.8 | 6.5 | 7.9 |
| Distance from supporting structure (meters) | 2.7 | 2.7 | 2.7 | 2.7 |
| Distance from obstructions on roof (meters) | N/A | N/A | N/A | N/A |
| Distance from obstructions not on roof (meters) | N/A | N/A | N/A | N/A |

| | | | | |
|--|------------|------------|------------|------------|
| Distance from trees (meters) | 18 | 18 | 18 | 18 |
| Distance to furnace or incinerator flue (meters) | N/A | N/A | N/A | N/A |
| Distance between collocated monitors (meters) | N/A | N/A | N/A | N/A |
| Unrestricted airflow (degrees) | 360° | 360° | 360° | 360° |
| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) | Teflon | Teflon | Teflon | Teflon |
| Residence time for reactive gases (seconds) | 0.7 | 2.2 | 0.8 | 2.3 |
| Will there be changes within the next 18 months? (Y/N) | No | No | No | No |
| Is it suitable for comparison against the annual PM2.5? (Y/N) | N/A | N/A | N/A | N/A |
| Frequency of flow rate verification for manual PM samplers | N/A | N/A | N/A | N/A |
| Frequency of flow rate verification for automated PM analyzers | N/A | N/A | N/A | N/A |
| Frequency of one-point QC check for gaseous instruments | Nightly | Nightly | Nightly | Nightly |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) | 06/18/2014 | 06/18/2014 | 06/18/2014 | 06/18/2014 |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | N/A | N/A | N/A | N/A |

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|-------------------------------|---------------------|---------------------|---------------------|--|
| Pollutant, POC | PM10, 2 | Continuous PM10, 3 | Continuous PM2.5, 3 | |
| Parameter code | See Table 26 | 81102 | 88101 | |
| Basic monitoring objective(s) | NAAQS | NAAQS | NAAQS | |
| Site type(s) | Population Exposure | Population Exposure | Population Exposure | |
| Monitor (type) | SLAMS | SLAMS | SLAMS | |
| Instrument manufacturer and | GMW 1200 SSI | Thermo 1400A TEOM | Met One BAM 1020 | |

| | | | | |
|--|--------------|--------------|---|--|
| model | | | | |
| Method code | 063, 102 | 079 | 170 | |
| FRM/FEM/ARM/ other | FRM | FEM | FEM | |
| Collecting Agency | SCAQMD | SCAQMD | SCAQMD | |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | SCAQMD | N/A | N/A | |
| Reporting Agency | SCAQMD | SCAQMD | SCAQMD | |
| Spatial scale (e.g. micro, neighborhood) | Neighborhood | Neighborhood | Neighborhood | |
| Monitoring start date (MM/DD/YYYY) | 01/1985 | 01/21/1999 | 01/21/1999 | |
| Current sampling frequency (e.g. 1:3, continuous) | 1:6 | 1:1 | 1:1 | |
| Calculated sampling frequency (e.g. 1:3/1:1) | 1:6 | N/A | N/A | |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | 01/01-12/31 | 01/01-12/31 | |
| Probe height (meters) | 5.1 | 5.2 | 5.5 | |
| Distance from supporting structure (meters) | 2.0 | 2.0 | 2.0 | |
| Distance from obstructions on roof (meters) | N/A | N/A | N/A | |
| Distance from obstructions not on roof (meters) | N/A | N/A | N/A | |
| Distance from trees (meters) | 19 | 19 | 20 | |
| Distance to furnace or incinerator flue (meters) | N/A | N/A | N/A | |
| Distance between collocated monitors (meters) | 3.5 | 3.5 | 4.0 | |
| Unrestricted airflow (degrees) | 360° | 360° | 360° | |
| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) | N/A | N/A | N/A | |
| Residence time for reactive gases (seconds) | N/A | N/A | N/A | |
| Will there be changes within the next 18 months? (Y/N) | No | No | No | |
| Is it suitable for comparison against the annual PM2.5? (Y/N) | N/A | N/A | No, unless the manual sampler has missing data. | |

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|--|------------|------------|------------|--|
| Frequency of flow rate verification for manual PM samplers | Monthly | N/A | N/A | |
| Frequency of flow rate verification for automated PM analyzers | N/A | Monthly | Monthly | |
| Frequency of one-point QC check for gaseous instruments | N/A | N/A | N/A | |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) | N/A | N/A | N/A | |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | 04/09/2014 | 06/18/2014 | 06/18/2014 | |

| | | | | |
|--|---------------------|----------------------------|--|--|
| Pollutant, POC | 24 Hour PM2.5, 1 | VOCs – GC, 1 | | |
| Parameter code | See Table 26 | See Table26 | | |
| Basic monitoring objective(s) | NAAQS | NAAQS | | |
| Site type(s) | Population Exposure | Highest Concentration | | |
| Monitor (type) | SLAMS | SLAMS - PAMS | | |
| Instrument manufacturer and model | Andersen RAAS PM2.5 | Aligent Technologies 6890N | | |
| Method code | 780, 120 | See Table26 | | |
| FRM/FEM/ARM/ other | FRM | FRM | | |
| Collecting Agency | SCAQMD | SCAQMD | | |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | SCAQMD | SCAQMD | | |
| Reporting Agency | SCAQMD | SCAQMD | | |
| Spatial scale (e.g. micro, neighborhood) | Neighborhood | Urban | | |
| Monitoring start date (MM/DD/YYYY) | 01/21/1999 | 07/01/1997 | | |
| Current sampling frequency (e.g. 1:3, continuous) | 1:1 | 1:1 | | |

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|--|-------------|------------------------------------|--|--|
| Calculated sampling frequency (e.g. 1:3/1:1) | 1:3 | No CFR mandated sampling schedule. | | |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | 07/01-09/30 | | |
| Probe height (meters) | 5.4 | 5.5 | | |
| Distance from | 2.0 | 2.0 | | |

| | | | | |
|--|------------------------|-----------------|--|--|
| supporting structure (meters) | | | | |
| Distance from obstructions on roof (meters) | N/A | N/A | | |
| Distance from obstructions not on roof (meters) | N/A | N/A | | |
| Distance from trees (meters) | 20 | 16 | | |
| Distance to furnace or incinerator flue (meters) | N/A | N/A | | |
| Distance between collocated monitors (meters) | 4.0 | N/A | | |
| Unrestricted airflow (degrees) | 360° | 360° | | |
| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) | N/A | Stainless steel | | |
| Residence time for reactive gases (seconds) | N/A | < 20 | | |
| Will there be changes within the next 18 months? (Y/N) | No | No | | |
| Is it suitable for comparison against the annual PM2.5? (Y/N) | Yes | N/A | | |
| Frequency of flow rate verification for manual PM samplers | Monthly | N/A | | |
| Frequency of flow rate verification for automated PM analyzers | N/A | N/A | | |
| Frequency of one-point QC check for gaseous instruments | N/A | N/A | | |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) | N/A | N/A | | |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | 05/30/2013, 11/20/2013 | N/A | | |

| | | | | |
|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Pollutant, POC | 24 Hour VOCs, 2 | Carbonyls, 2 | Carbonyls, 8 | Metals, Cr6, Carbonyls, N/A |
| Parameter code | See Table 26 | See Table 26 | See Table 26 | N/A |
| Basic monitoring objective(s) | NAAQS | NAAQS | NAAQS | NAAQS |
| Site type(s) | Highest Concentration | Highest Concentration | Highest Concentration | Highest Concentration |
| Monitor (type) | SLAMS/PAMS/QA Collocated | SLAMS – PAMS | SLAMS/PAMS/QA Collocated | ARB Toxics |
| Instrument manufacturer and model | Xontech 910a | Atec 8000 | Atec 8000 | Xontech 924 |
| Method code | 172 | 102 | 102 | N/A |
| FRM/FEM/ARM/ other | Other | Other | Other | Other |
| Collecting Agency | SCAQMD | SCAQMD | SCAQMD | SCAQMD |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | SCAQMD | SCAQMD | SCAQMD | ARB Toxics |
| Reporting Agency | SCAQMD | SCAQMD | SCAQMD | ARB |
| Spatial scale (e.g. micro, neighborhood) | Urban | Urban | Urban | Urban |
| Monitoring start date (MM/DD/YYYY) | 07/01/1997 | 07/01/1997 | 07/01/1997 | 01/1989 |
| Current sampling frequency (e.g. 1:3, continuous) | 1:6 | 1:6 or Intensive PAMS | Intensive PAMS | 1:12 |
| Calculated sampling frequency (e.g. 1:3/1:1) | No CFR mandated sampling schedule. |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | 01/01-12/31 | 07/01-9/30 | 01/01-12/31 |
| Probe height (meters) | 5.5 | 5.5 | 5.5 | 5.5 |
| Distance from supporting structure (meters) | 2.0 | 2.0 | 2.0 | 2.1 |
| Distance from obstructions on roof (meters) | N/A | N/A | N/A | N/A |
| Distance from obstructions not on roof (meters) | N/A | N/A | N/A | N/A |
| Distance from trees (meters) | 16 | 16 | 16 | 16 |
| Distance to furnace or incinerator flue (meters) | N/A | N/A | N/A | N/A |
| Distance between collocated monitors (meters) | N/A | N/A | N/A | 0.5 |
| Unrestricted airflow (degrees) | 360° | 360° | 360° | 360° |
| Probe material for reactive gases (e.g. Pyrex, stainless) | Stainless steel | Stainless steel | Stainless steel | N/A |

| | | | | |
|--|---------------|---------------|---------------|-----|
| steel, Teflon) | | | | |
| Residence time for reactive gases (seconds) | 0.3 | 1.2 | 1.3 | N/A |
| Will there be changes within the next 18 months? (Y/N) | No | No | No | No |
| Is it suitable for comparison against the annual PM2.5? (Y/N) | N/A | N/A | N/A | N/A |
| Frequency of flow rate verification for manual PM samplers | N/A | N/A | N/A | N/A |
| Frequency of flow rate verification for automated PM analyzers | N/A | N/A | N/A | N/A |
| Frequency of one-point QC check for gaseous instruments | Semi Annually | Semi Annually | Semi Annually | N/A |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) | 5/17/13 | 4/4/13 | 4/4/13 | N/A |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | N/A | N/A | N/A | N/A |

| | | | | |
|--|-----------------------|--|--|--|
| Pollutant, POC | VOCs, N/A | | | |
| Parameter code | See Table 26 | | | |
| Basic monitoring objective(s) | NAAQS | | | |
| Site type(s) | Highest Concentration | | | |
| Monitor (type) | ARB Toxics | | | |
| Instrument manufacturer and model | Xontech 910pc | | | |
| Method code | N/A | | | |
| FRM/FEM/ARM/other | Other | | | |
| Collecting Agency | SCAQMD | | | |
| Analytical Lab (i.e. weigh lab, toxics lab, other) | ARB Toxics | | | |
| Reporting Agency | ARB | | | |
| Spatial scale (e.g. micro, neighborhood) | Urban | | | |
| Monitoring start date (MM/DD/YYYY) | 01/1989 | | | |

| | | | | |
|---|------------------------------------|--|--|--|
| Current sampling frequency (e.g.1:3, continuous) | 1:12 | | | |
| Calculated sampling frequency (e.g. 1:3/1:1) | No CFR mandated sampling schedule. | | | |
| Sampling season (MM/DD-MM/DD) | 01/01-12/31 | | | |
| Probe height (meters) | 5.5 | | | |
| Distance from supporting structure (meters) | 2.0 | | | |
| Distance from obstructions on roof (meters) | N/A | | | |
| Distance from obstructions not on roof (meters) | N/A | | | |
| Distance from trees (meters) | 16 | | | |
| Distance to furnace or incinerator flue (meters) | N/A | | | |
| Distance between collocated monitors (meters) | N/A | | | |
| Unrestricted airflow (degrees) | 360° | | | |
| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) | Stainless steel | | | |
| Residence time for reactive gases (seconds) | N/A | | | |
| Will there be changes within the next 18 months? (Y/N) | No | | | |

| | | | | |
|--|-----|--|--|--|
| Is it suitable for comparison against the annual PM2.5? (Y/N) | No | | | |
| Frequency of flow rate verification for manual PM samplers | N/A | | | |
| Frequency of flow rate verification for automated PM analyzers | N/A | | | |
| Frequency of one-point QC check for gaseous instruments | N/A | | | |
| Last Annual Performance | N/A | | | |

| | | | | |
|--|-----|--|--|--|
| Evaluation for gaseous parameters (MM/DD/YYYY) | | | | |
| Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY) | N/A | | | |

**Burbank
Site Photos**



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

**Burbank
Site Photos (Cont.)**



Looking at the probe from the North.



Looking at the probe from the East.



Looking at the probe from the South.



Looking at the probe from the West.