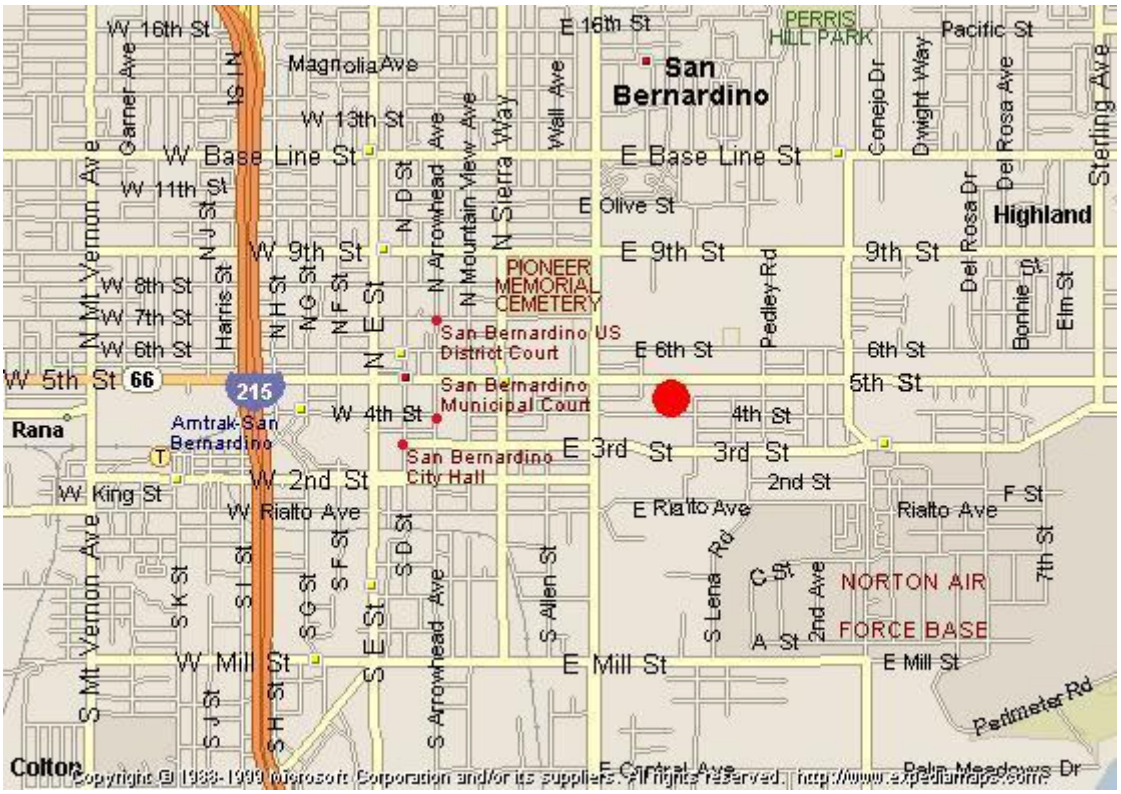
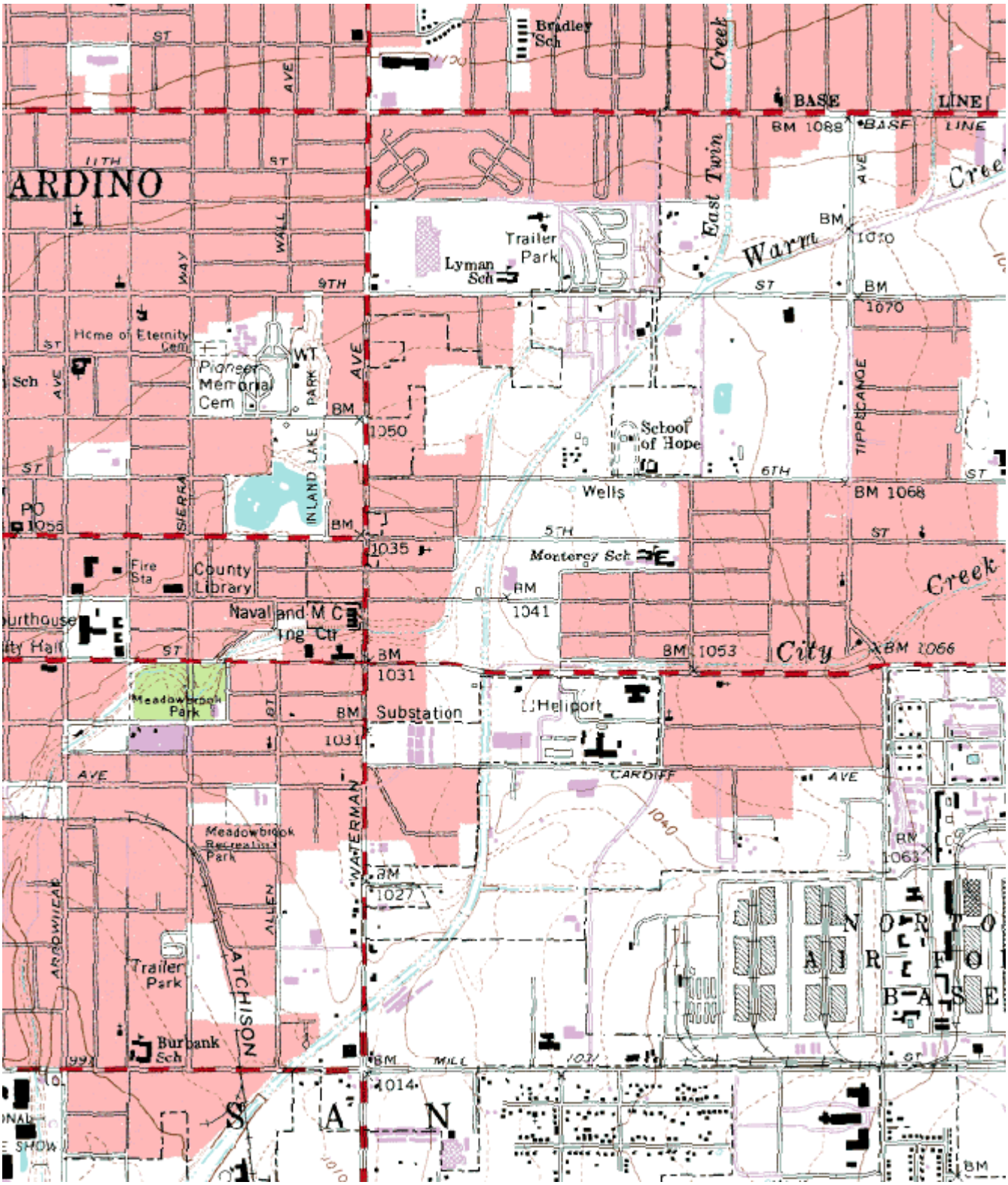
Quality Assurance
Site Survey Report for San Bernardino

Last updated May, 2011



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060719004	36203	05/86	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
24302 E 4th St San Bernardino, CA 92410	San Bernardino	South Coast	34° 06' 24"N	117° 16' 26"W	316


ARDINO
Bradley Sch
East Twin Creek
Warm Creek
BASE LINE
BM 1088
Trailer Park
Lyman Sch
Home of Eternity Cem
Pioneer Memorial Cem
WT
PARK
BM 1050
School of Hope
Wells
BM 1068
PO
Fire Sta
County Library
Naval and M C ing Ctr
Monterey Sch
BM 1041
BM 1053
City
BM 1066
BM 1035
Meadowbrook Park
BM 1031
Substation
Heliport
CARDIFF AVE
Meadowbrook Recreation Park
BM 1027
BM 1063
Trailer Park
Burbank Sch
BM 1014
MILL
NORTON AIR FORCE BASE
SAN
WATERMAN
ATCHISON
ALLEN
ARROWHEAD
SIERRA WAY
INLAND LAKE
TIPPECANOE
9TH
6TH
5TH
11TH
AVE
ST

Site Survey Report

Siting Information

Site Name: San Bernardino	Date: 5/27/11	State Code: 36203	AIRS Number: 060719004
Address: 24302 E. 4th St San Bernardino, CA 92410	Latitude: 34° 06' 24"	Longitude: 117° 16' 26"	Elevation (m): 316
	Senior AQIS: Keith Brown	Site Technician: Brandon Feenstra	Site Phone: (909) 888-3051
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: E
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 16 - 23 meters	Region: Level	Probe Last Cleaned: 6/11
	Count (Veh/Day): 2500	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Urban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site name	San Bernardino			
AQS ID (AIRS #)	060719004			
GIS coordinates	Latitude: 34° 06’ 24” Longitude: 117° 16’ 26”			
Location	Elementary School			
Address	24302 E 4th St, San Bernardino, CA 92410			
County	San Bernardino			
Distance to road	16 - 23 meters			
Traffic count	2500 veh/day			
Groundcover	Asphalt			
Representative area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10 TEOM
Site type	SLAMS	SLAMS	SLAMS	SLAMS
Monitor objective	Population Oriented	Population Oriented	Highest Concentration	Highest Concentration
Spatial scale	Middle Scale	Urban Scale	Neighborhood Scale	Neighborhood Scale
Instrument type	Primary	Primary	Primary	Audit
Method code	N/A	N/A	N/A	079
POC code	1	1`	1	1
Instrument manufacturer/model	Horiba APMA 370	Thermo 42i	API-Teledyne 400E	TEOM 1400A
Serial #	H000KT6D	CM08360031	513	140A-282198
Property #	E000343	16725	N/A	20003798 (ARB)
Last calibration date	2/10/11	4/14/11	2/1/11	12/23/10
Analysis method	Non dispersive infrared	Chemiluminescence	UV photometric	TEOM
Start date	05/86	05/86	05/86	09/01/04
Operation schedule	1:1	1:1	1:1	Cont
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.8	4.8	4.8	2.4
Distance from supporting structure	1.4	1.4	1.4	1.4
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	2.6
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	7.2	7.9	7.7	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Monthly
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A
Date of last annual performance evaluation	3/31/2011	3/31/2011	3/31/2011	N/A
Dates of semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	7/30/10
	N/A	N/A	N/A	12/30/10
Date of past year's PM2.5-PEP audit	N/A	N/A	N/A	N/A
Date of past year's Pb-PEP audit	N/A	N/A	N/A	N/A

Pollutant	TSP (Lead)	PM2.5 RAAS	PM10-SSI	
Site type	SLAMS	SLAMS	SLAMS	
Monitor objective	Population Oriented	Population Oriented	Highest Concentration	
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	
Instrument type	Primary	Primary	Primary	
Method code	N/A	N/A	N/A	
POC code	1	1	1	
Instrument manufacturer/model	GMW2000	Andersen 300 RAAS	Andersen GMW-1200	
Serial #	19923	00444	N/A	
Property #	1569	258479 San Diego	4993	
Last calibration date	3/18/11	1/12/11	5/10/11	
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry	Gravimetric	Gravimetric	
Start date	09/90	08/27/08	01/97	
Operation schedule	1:6	1:3	1:6	
Sampling season	All Year	All Year	All Year	
Probe height	2.0	2.0	2.0	
Distance from supporting structure	1.0	1.0	1.0	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	N/A	N/A	N/A	
Distance to furnace or incinerator flue	N/A	N/A	N/A	

Distance between collocated monitors	N/A	N/A	2.6	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	N/A	N/A	N/A	
Residence time	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	N/A	Yes	No	
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Monthly	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	
Date of last annual performance evaluation	N/A	N/A	N/A	
Dates of semi-annual flow rate audits for PM monitors	3/16, 6/3/2011	N/A	N/A	
	3/16, 6/3/2011	N/A	N/A	
Date of past year's PM2.5-PEP audit	N/A	Scheduled	N/A	
Date of past year's Pb-PEP audit	Scheduled	N/A	N/A	

San Bernardino
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

San Bernardino
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.