# AMBIENT AIR MONITORING NETWORK PLAN 2006



# STATE OF NEVADA DIVISION OF ENVIRONMENTAL PROTECTION BUREAU OF AIR QUALITY PLANNING

Contact: Terry R. Hall

Supervisor, Ambient Monitoring Bureau of Air Quality Planning 901 S. Stewart Street, Suite 4001 Carson City, Nevada 89701

(775)-687-9375 or (775)687-6396 fax

email: thall@ndep.nv.gov

## **Table of Contents**

Definition of Terms	
Overview	4
Goals	
Background	
Network Design	
Monitoring Sites (map)	
Detailed Site Information (tables)	
Detailed Site Information (tables)	9-23

#### **Definition of Terms**

CAA: Clean Air Act

AQS: Air Quality System

BAQP: Bureau of Air Quality Planning

CFR: Code of Federal Regulations

CO: Carbon Monoxide

DCNR: Department of Conservation and Natural Resources

EPA: Environmental Protection Agency

FEM: Federal Equivalent Method

FRM: Federal Reference Method

IMPROVE: Interagency Monitoring of Protected Visual Environments

NAAQS: National Ambient Air Quality Standards

NAC: Nevada Administrative Code

NDEP: Nevada Division of Environmental Protection

 $O_3$ : Ozone

PM: Particulate Matter (2.5 or 10 microns)

SLAMS: State and Local Air Monitoring Stations

SPMS: Special Purpose Monitoring Stations

#### Overview

The monitoring program of the Nevada Division of Environmental Protection (NDEP) operates an ambient air quality monitoring network of gaseous and particulate pollutant monitors. The monitors are located in small communities throughout rural Nevada. In the metropolitan areas of Reno and Las Vegas; the Washoe County District Health Department, Air Quality Management Division and the Clark County Department of Air Quality and Environmental Management operate and maintain their respective monitoring networks separate from NDEP and submit their Network Plan independently.

#### Goals

NDEP created an ambient air quality monitoring program to provide useful and accurate information on air quality, which is used to evaluate the success of the State's air quality programs. The Clean Air Act of 1970, and subsequent amendments, defines air quality standards for various air pollutants necessary to protect the public from injurious pollution concentrations. Air pollution concentrations that exceed these established standards, National Ambient Air Quality Standards (NAAQS), can cause a public health hazard, nuisance, annoyance, or damage to flora, fauna and personal property.

The NAAQS, published by the U.S. EPA, can be found in 40 CFR Part 50 and define the levels of air quality necessary to protect human health and welfare. An area is considered to be in nonattainment for a pollutant if it has violated the NAAQS for that pollutant. The CFR includes procedures for evaluating measured air quality against the NAAQS. State air quality standards can be found in Nevada Administrative Code (NAC) 445B.22097.

### Background

The State of Nevada has three jurisdictions which independently manage their own air programs, as designated by Statute. The Department of Conservation and Natural Resources (DCNR), Division of Environmental Protection (NDEP), Bureau of Air Quality Planning (BAQP) is responsible for air quality surveillance in all areas of the State other than Clark and Washoe Counties.

In addition to these three independent monitoring networks, air quality monitoring is being conducted through the Interagency Monitoring of Protected Visual Environments (IMPROVE) network by the federal land management agencies. There is only one IMPROVE monitoring site left in Nevada, at the Jarbidge Wilderness area in northeastern Nevada.

State agencies that conduct ambient monitoring using SLAMS or SPMS, that utilize Federal Reference Methods (FRM) or Federal Equivalent Methods (FEM), must comply with federal quality assurance requirements listed in 40 CFR 58.20, Appendix A. In conjunction with the Network Plan, a BAQP quality assurance plan was developed to form the framework for planning, implementing, assessing and reporting work performed by the BAQP and for implementing quality assurance and quality control tasks.

The Ambient Air Monitoring Program Quality Assurance Project Plan was developed to address quality management as well as quality assurance. The Quality Management Plan (QMP) describes the organizational structure, functional responsibilities of management and staff, lines of authority, and required interfaces with those planning, implementing, assessing and reporting activities involving environmental data operations. The Quality Assurance Project Plan (QAPP) defines the policies, procedures, specifications, standards, and documentation necessary to: 1) provide data of adequate quality to meet monitoring objectives, and 2) minimize loss of air quality data due to malfunctions or out-of-control conditions.

Additionally, the BAQP has developed ambient monitoring guidelines in order to ensure that ambient air quality data collected, at regulated facilities in the State, are of the highest quality and conform to federal requirements for quality assurance listed under 40 CFR 58.20.

Ambient air quality monitoring data must certify on an annual basis that those data are accurate and complete. The certification process begins with the complete submittal of all SLAMS data to federal Air Quality System (AQS) for the calendar year. Submittal of data into AQS for 2006 is incomplete due to staffing vacancies. BAQP is hopeful to complete entry of 2006 data into AQS during this calendar year. Precision and accuracy reports and certification of that data should also be accomplished within that time frame.

### **Network Design**

There are currently ten ambient air quality monitoring stations in Nevada under the jurisdiction of BAQP. Air quality monitoring is represented by both SLAMS and SPMS. There are two meteorological stations, one in Carson City and the other in Pahrump. These are used to confirm the local meteorological data from the monitoring stations, modeling and natural events.

Changes to the Network Plan over the next 18 months are anticipated. The Fernley Station is currently monitoring for PM <sub>2.5</sub> as a SPMS. In the past, O<sub>3</sub> was also monitored at this station, but was discontinued due to equipment failure. The goal is to get O<sub>3</sub> monitoring equipment at the Fernley Station once again this summer. The Long Street Station, a SLAMS, is being considered for a modification due to a site criteria issue. Trees have grown tall over the years, adjacent to this station, and may possibly interfere with monitoring. Access to the monitoring station at Long Street has also become difficult and may have to be moved because of that issue. The Fifth Street Station is equipped with a meteorological station and is being considered as a replacement site for the Long Street Station. This change may take place this summer also.

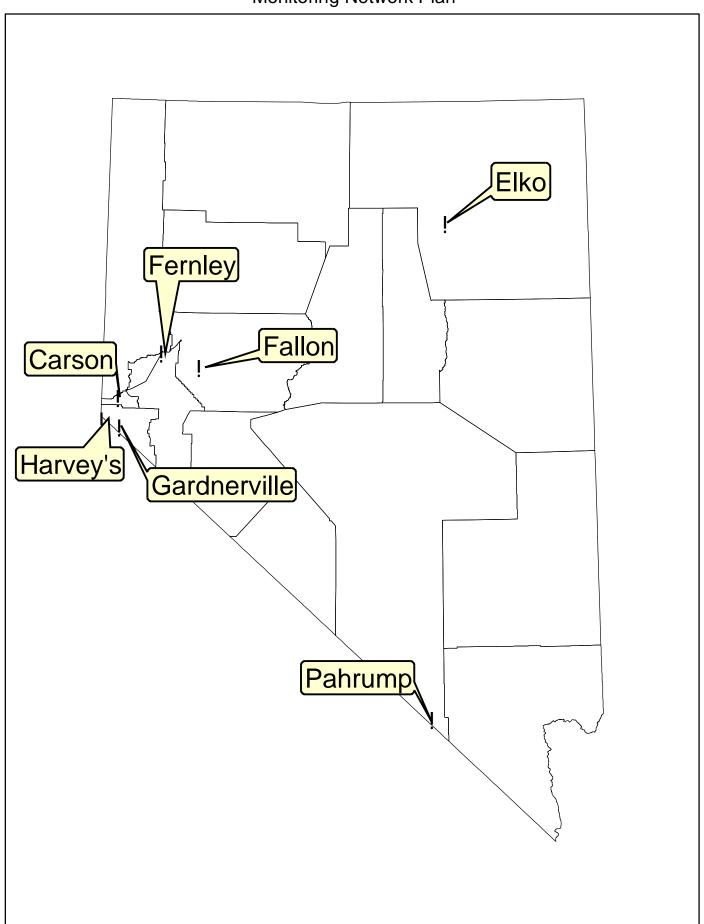
Historically, ambient air quality monitoring by BAQP has looked at trends in air quality to aid in the local planning process. Traffic, wood burning stoves, and growth related activities have prompted air quality monitoring in specific areas around the State. Data from these SPMS has lead to public education and outreach to communities identifying the potential health effects caused by air pollutants in the environment. Ordinances controlling surface area disturbances and other related activities that produce dust have also been implemented with the help of SPMS.

A map showing the location of the monitoring stations maintained by BAQP is provided.

#### **Detailed Site Information**

A table showing detailed site information for each monitoring station is provided on the following pages.

Nevada Division of Environmental Protection - Bureau of Air Quality Planning - Monitoring Network Plan



#### Elko

Site Name	
	Elko
AQS ID	32-007-0004
GIS coordinates	4,521,520 N; 603,920 E
Location	State Offices
Address	850 Elm Street
County	Elko
Dist. to road	20 meters
Traffic count	# Light
Groundcover	Asphalt
Representative	Rural
Area	
Pollutant	PM10
Monitor objective	Population
	Exposure
Spatial scale	Middle
Sampling method	Teom 1400AB &
	Met
Analysis method	N/A
Start date	12/10/98
Operation schedule	Continuous
Sampling season	All Year
Probe height	6.4 meters
Distance from	Vertical Distance
supporting	1.8
structure	
Distance from	N/A
obstructions on	
roof	
Distance from	N/A
obstructions not on	
roof	
Distance from	13.7 meters
trees	
Distance to furnace	N/A
or incinerator flue	
Distance between	N/A
collocated	
monitors	
Unrestricted	360
airflow	N/A
Probe material	N/A
Residence time	N/A
Will there be	No
changes within the	
next 18 months?	N/A
Is it suitable for	N/A
comparison against	
the annual PM2.5?	N/A
Frequency of flow	N/A

rate verification for manual PM samplers audit			
Frequency of flow rate verification for automated PM analyzers audit	Quarterly		
Frequency of one- point QC check (gaseous)	N/A		
Last Annual Performance Evaluation (gaseous)	N/A		
Last two semi- annual flow rate audits for PM monitors	3/17/07, 12/6/06 8/18/06, 5/27/06		

# **Detailed Site Information**Fallon

Site Name	Fallon			
AQS ID	SPMS-No AIRS			
GIS coordinates	4,370,500 N 346,650 E			
Location	On West End Elementary School			
Address	280 South Russell St. Fallon, Nevada			
County	Churchill			
Dist. to road	65 meters			
Traffic count	N/A			
Groundcover	Paved, dirt			
Representative	Rural			
Area				
Pollutant	03			
Monitor objective	Population			
	Exposure			
Spatial scale	Middle			
Sampling method	API 400A			
Analysis method	N/A			
Start date	10/01/99			
Operation schedule	Seasonal			
Sampling season	April-October			
Probe height	3.7 meters			
Distance from	0.3 meters			
supporting				
structure				
Distance from	N/A			
obstructions on				
roof				
Distance from	N/A			

obstructions not on			
roof			
Distance from	4.5 meters		
	4.5 meters		
trees	NT/A		
Distance to furnace	N/A		
or incinerator flue			
Distance between	N/A		
collocated			
monitors			
Unrestricted	360		
airflow			
Probe material	Glass Funnel		
	W/Teflon tubing		
Residence time	4 Seconds		
Will there be	No		
changes within the			
next 18 months?			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
Frequency of flow	N/A		
rate verification for			
manual PM			
samplers audit			
Frequency of flow	N/A		
rate verification for	1,712		
automated PM			
analyzers audit			
Frequency of one-	weekly		
point QC check	"CORTY		
(gaseous)			
Last Annual	N/A		
Performance	11/17		
Evaluation			
(gaseous)	N/A		
Last two semi-	IN/A		
annual flow rate			
audits for PM			
monitors			

### Harvey's – Stateline

Site Name	Harvey's Resort & Hotel
AQS ID	32005-0009
GIS coordinates	3,855,723 N 1,195,642 W
Location	1 <sup>st</sup> level of parking garage facing HWY
Address	Harvey's Resort & Hotel Stateline, NV 89449
County	Douglas, NV
Dist. to road	9 meters

Traffic count	#1,016/day		
Groundcover	Paved -Asphalt		
Representative	N/A		
Area	11/11		
Pollutant	CO		
Monitor objective	Population		
	Exposure		
Spatial scale	Micro		
Sampling method	Dasibi 3008		
Analysis method	N/A		
Start date	10/1/99		
Operation schedule	Continues		
Sampling season	All Year		
Probe height	3.2 meters		
Distance from	1 meter		
supporting	Horizontally		
structure	,		
Distance from	N/A		
obstructions on			
roof			
Distance from	N/A		
obstructions not on			
roof			
Distance from	4 meter		
trees			
Distance to furnace	N/A		
or incinerator flue			
Distance between	N/A		
collocated			
monitors			
Unrestricted	270 degrees		
airflow			
Probe material	Teflon		
Residence time	8 seconds		
Will there be	No		
changes within the			
next 18 months?	27/4		
Is it suitable for	N/A		
comparison against			
the annual PM2.5?	N/A		
Frequency of flow rate verification for	IN/A		
manual PM			
samplers audit			
Frequency of flow	N/A		
rate verification for	1 1/ /1		
automated PM			
analyzers audit			
Frequency of one-	Bi-weekly		
point QC check	_=		
(gaseous)			
Last Annual	N/A		
Performance			
Evaluation			
(gaseous)			
	L.		

Last two semi-	N/A		
annual flow rate			
audits for PM			
monitors			

# **Detailed Site Information Fernley**

Site Name	Fernley		
AQS ID	SPMS- No AIRS		
GIS coordinates	4,385,870 N 307,080 E		
Location	Fernley, NV		
Address	320 Hardie Lane, Fernley, NV		
County	Lyon County		
Dist. to road	220 meters		
Traffic count	N/A		
Groundcover	Paved -Asphalt		
Representative	Rural		
Area			
Pollutant	PM 2.5		
Monitor objective	Population		
	Exposure		
Spatial scale	Middle		
Sampling method	GT-640		
Analysis method	N/A		
Start date	6/08/99		
Operation schedule	Continuous		
Sampling season	All Year		
Probe height	6 Meters		
Distance from	1.5 Vertical meters		
supporting			
structure			
Distance from	N/A (Elevated)		
obstructions on			
roof			
Distance from	N/A		
obstructions not on			
roof			
Distance from	15 Meters		
trees			
Distance to furnace	N/A		
or incinerator flue			
Distance between	N/A		
collocated			
monitors	0.00 P		
Unrestricted	360 Degrees		
airflow			
Probe material	Aluminum		
Residence time	3 Seconds		
Will there be	Yes		
changes within the			

next 18 months?			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
Frequency of flow	N/A		
rate verification for			
manual PM			
samplers audit			
Frequency of flow			
rate verification for	Bi-weekly		
automated PM			
analyzers audit			
Frequency of one-	N/A		
point QC check			
(gaseous)			
Last Annual	N/A		
Performance			
Evaluation			
(gaseous)			
Last two semi-	N/A		
annual flow rate			
audits for PM			
monitors			

### **Long Street - Carson**

G!: N	T 0:				
Site Name	Long Street				
AQS ID	32-510-0004	32-510-0004			
GIS coordinates	4,339,418 N; 261,63	2 E			
Location	Sierra Pacific Power	Company Yard			
Address	875 E. Long Street				
County	Carson				
Dist. to road	70 meters-North 70	meters West			
Traffic count	Heavy				
Groundcover	Paved, gravel				
Representative	Rural				
Area					
Pollutant	O3	PM2.5	CO		
Monitor objective	Population	Population	Population		
	exposure	exposure	Exposure		
Spatial scale	middle	middle	Middle		
Sampling method	API 400	Met-One ES-640	API 300 Gas		
	Photometric	Forward light	Correlation		
		scattering detector			
Analysis method	N/A	NA	NA		
Start date	1/1/97	1/6/99	1/1/97		
Operation schedule	Continuous	Continuous	Continuous		
Sampling season	April to Nov.	All year	All year		
Probe height	4.6 meters	5 meters	4.6 meters		
Distance from	Vertical distance	Vertical distance	Vertical distance		

supporting structure	above 2.1meters	above 3.0 meters	above 2.1 meters	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	3 meters	3 meters	3 meters	
Distance from trees	3 meters	3 meters	3 meters	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	N/A	N/A	N/A	
Unrestricted airflow	270 degrees	270 degrees	270 degrees	
Probe material	Teflon	N/A	Teflon	
Residence time	3 seconds	N/A	3 seconds	
Will there be changes within the next 18 months?	Yes	Yes	Yes	
Is it suitable for comparison against the annual PM2.5?	N/A	No, Continuous Trend	N/A	
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers audit	N/A	Bi-weekly,	N/A	
Frequency of one- point QC check (gaseous)	Weekly	N/A	Weekly	

# Detailed Site Information 5<sup>th</sup> Street -Carson

Site Name	5 <sup>th</sup> Street
AQS ID	32-510-0002
GIS coordinates	East 264,100 North 4,338,675
Location	Carson City
Address	3300 East Fifth Street
County	Carson
Dist. to road	10 meters
Traffic count	Light
Groundcover	Dirt
Representative	Rural
Area	

D-11-44	Mat Cita and	<u> </u>	
Pollutant	Met Site only		
Monitor objective	Modeling, Natural		
	Events and		
~	Confirmation		
Spatial scale	middle		
Sampling method	N/A		
Analysis method	N/A		
Start date	1/1/89		
Operation schedule	Continuous		
Sampling season	All Year		
Probe height	10 meters		
Distance from	Vertical distance		
supporting	above 7 meters		
structure			
Distance from	N/A		
obstructions on			
roof			
Distance from	N/A		
obstructions not on			
roof			
Distance from	N/A		
trees			
Distance to furnace	N/A		
or incinerator flue			
Distance between	N/A		
collocated			
monitors			
Unrestricted	360 degrees		
airflow			
Probe material	N/A		
Residence time	N/A		
Will there be	Yes		
changes within the			
next 18 months?			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
Frequency of flow	N/A		
rate verification for			
manual PM			
samplers audit			
Frequency of flow	N/A		
rate verification for			
automated PM			
analyzers audit			
Frequency of one-	N/A		
point QC check			
(gaseous)			
Last Annual	N/A		
Performance			
Evaluation			
(gaseous)			

### Gardnerville Rancho's

Site Name	Gardnerville Rancho's			
AQS ID	32-005-0007			
GIS coordinates	East 263,055 North 4,308,400			
Location	Aspen Park maintenance yard			
Address	820 Lyell Way	<i>y</i>		
County	Douglas			
Dist. to road	12 meters East, 100met	ers South 200mete	ers North	
Traffic count	Light	2001110	10141	
Groundcover	Gravel			
Representative	Rural			
Area	110101			
Pollutant	PM 2.5			
Monitor objective	Population			
	exposure			
Spatial scale	middle			
Sampling method	Met-One BAM			
_ simpling mould	1020			
Analysis method	N/A			
Start date	7/98			
Operation schedule	Continuous			
Sampling season	All year			
Probe height	3 meters			
Distance from	Vertical distance			
supporting	above 1.5 meters			
structure	doore 1.5 meters			
Distance from	N/A			
obstructions on	1,112			
roof				
Distance from	4 meters			
obstructions not on				
roof				
Distance from	N/A			
trees				
Distance to furnace	N/A			
or incinerator flue				
Distance between	N/A			
collocated				
monitors				
Unrestricted	360 degrees			
airflow				
Probe material	Aluminum			
Residence time	N/A			
Will there be	No			
changes within the				
next 18 months?				
Is it suitable for	N/A			
comparison against				
the annual PM2.5?				
Frequency of flow	N/A			
rate verification for				

manual PM			
samplers audit			
Frequency of flow	Monthly		
rate verification for			
automated PM			
analyzers audit			
Frequency of one-	N/A		
point QC check			
(gaseous)			
Last Annual	N/A		
Performance			
Evaluation			
(gaseous)			
Last two semi-	N/A		
annual flow rate			
audits for PM			
monitors			

# **Detailed Site Information Church Site -Pahrump**

Site Name	Church Site		
AQS ID	32-023-0013		
GIS coordinates	East 590,283 North 4,002,120		
Location	Pahrump		
Address	781 E. Gamebird		
County	Nye		
Dist. to road	100 Meters		
Traffic count	N/A		
Groundcover	Desert		
Representative	Rural		
Area			
Pollutant	PM-10		
Monitor objective	Population		
	exposure		
Spatial scale	Urban		
Sampling method	BAM-1020		
Analysis method	N/A		
Start date	2/14/04		
Operation schedule	Continuous		
Sampling season	All Year		
Probe height	4 meters		
Distance from	Vertical distance		
supporting	above 2 meters		
structure			
Distance from	N/A		
obstructions on			
roof			
Distance from	10 meters		
obstructions not on			
roof	N/A		
Distance from	N/A		

troos			
Distance to furness	NT/A		
Distance to furnace or incinerator flue	N/A		
	NT/A		
Distance between	N/A		
collocated			
monitors			
Unrestricted	360 degrees		
airflow			
Probe material	Aluminum		
Residence time	N/A		
Will there be	No		
changes within the			
next 18 months?			
Is it suitable for	N/A		 
comparison against			
the annual PM2.5?			
Frequency of flow	N/A		
rate verification for			
manual PM			
samplers audit			
Frequency of flow	Monthly		
rate verification for			
automated PM			
analyzers audit			
Frequency of one-	N/A		
point QC check			
(gaseous)			
Last Annual	N/A		
Performance			
Evaluation			
(gaseous)			
Last two semi-	3/06/07		
annual flow rate	12/07/06		
audits for PM	9/19/06		
monitors	6/06/06		
Performance Evaluation (gaseous) Last two semi- annual flow rate audits for PM	3/06/07 12/07/06 9/19/06		

### Manse Elementary -Pahrump

Site Name	Manse Elementary			
AQS ID	32-023-0014			
GIS coordinates	East 590,102 North	4,009,186		
Location	Pahrump			
Address	1020 E. Wilson Rd			
County	Nye			
Dist. to road	50 meters South, 100	50 meters South, 100 meters South East, 68 meters South West		
Traffic count	3,000 /day			
Groundcover	Gravel school yard			
Representative	Rural	Rural		
Area				
Pollutant	PM-10	Met-site		
Monitor objective	Population	Modeling, Natural		

		D	<u> </u>
	exposure	Events and Confirmation	
C ( . 1 1 .		middle	
Spatial scale	middle		
Sampling method	BAM-1020	N/A	
Analysis method	N/A	N/A	
Start date	11/17/05	04/09/03	
Operation schedule	Continuous	Continuous	
Sampling season	All Year	All Year	
Probe height	5 meters	10 meters	
Distance from	Vertical distance	Vertical distance	
supporting	above 1 meter	above 7 meters	
structure			
Distance from	N/A	N/A	
obstructions on			
roof			
Distance from	N/A	N/A	
obstructions not on			
roof			
Distance from	7&10 meters	N/A	
trees			
Distance to furnace	N/A	N/A	
or incinerator flue	- "		
Distance between	N/A	N/A	
collocated	14/11	14/21	
monitors			
Unrestricted	360 degrees	360 degrees	
airflow	500 degrees	300 degrees	
Probe material	Aluminum	N/A	
Residence time	N/A	N/A	
Will there be	No	No No	
	NO	NO	
changes within the next 18 months?			
	N/A	N/A	
Is it suitable for	N/A	N/A	
comparison against			
the annual PM2.5?	27/4	37/4	
Frequency of flow	N/A	N/A	
rate verification for			
manual PM			
samplers audit			
Frequency of flow	Monthly	N/A	
rate verification for			
automated PM			
analyzers audit			
Frequency of one-	N/A	N/A	
point QC check			
(gaseous)			
Last Annual	N/A	N/A	
Performance			
Evaluation			
(gaseous)			
Last two semi-	03/06/07	N/A	 
annual flow rate	12/07/06		
audits for PM	09/20/06		
monitors	06/6/06		

### Willow Creek Golf Course

Cita Massa	William Conals Calf Course		
Site Name	Willow Creek Golf Course		
AQS ID	32-023-0012-81102-1		
GIS coordinates	East 589491 North 4005974		
Location	Pahrump		
Address	1500 Red Butte		
County	Nye		
Dist. to road	200 Meters		
Traffic count	N/A		
Groundcover	Grass		
Representative	Rural		
Area			
Pollutant	PM-10		
Monitor obj	Population		
	exposure		
Spatial scale	Middle		
Sampling method	BAM-1020		
Analysis method	N/A		
Start date	11/20/03		
Operation schedule	Continuous		
Sampling season	All Year		
Probe height	5 meters		
Distance from	Vertical distance		
supporting	above 2 meters		
structure			
Distance from	N/A		
obstructions on			
roof			
Distance from	N/A		
obstructions not on			
roof			
Distance from	12 meters		
trees			
Distance to furnace	N/A		
or incinerator flue			
Distance between	N/A		
collocated			
monitors			
Unrestricted	360 degrees		
airflow			
Probe material	Aluminum		
Residence time	N/A		
Will there be	No		
changes within the			
next 18 months?			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
Frequency of flow	N/A		
1 requeste y of flow	1 1		

rate verification for manual PM samplers audit			
Frequency of flow	Monthly		
rate verification for automated PM			
analyzers audit			
Frequency of one-	N/A		
point QC check			
(gaseous)			
Last Annual	N/A		
Performance			
Evaluation			
(gaseous)			
Last two semi-	3/7/07, 12/7/06,		
annual flow rate	9/19/06, 6/6/06		
audits for PM			
monitors			

### **Detailed Site Information** Linda Street - Pahrump

G'. N	1: 1.0		
Site Name	Linda St.		
AQS ID	32-023-0011-81102-1		
GIS coordinates	East 116.014 North 36.358		
Location	Pahrump		
Address	8825 N. Linda		
County	Nye		
Dist. to road	20 Meters		
Traffic count	N/A		
Groundcover	Desert		
Representative	Rural		
Area			
Pollutant	PM-10		
Monitor obj	Population		
	exposure		
Spatial scale	Regional		
Sampling method	BAM-1020		
Analysis method	N/A		
Start date	5/23/03		
Operation schedule	Continuous		
Sampling season	All Year		
Probe height	6 meters		
Distance from	Vertical distance		
supporting	above 3 meters		
structure			
Distance from	N/A		
obstructions on			
roof			
Distance from	10 meters		
obstructions not on			

roof			
Distance from	NA		
trees			
Distance to furnace	N/A		
or incinerator flue			
Distance between	N/A		
collocated			
monitors			
Unrestricted	360 degrees		
airflow			
Probe material	Aluminum		
Residence time	N/A		
Will there be	No		
changes within the			
next 18 months?			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
Frequency of flow	N/A		
rate verification for			
manual PM			
samplers audit			
Frequency of flow	Monthly		
rate verification for			
automated PM			
analyzers audit	37/4		
Frequency of one-	N/A		
point QC check			
(gaseous)	NT/A		
Last Annual Performance	N/A		
Evaluation Evaluation			
(gaseous)			
Last two semi-	3/7/07, 12/7/06,		
annual flow rate	9/20/06, 6/6/06		
audits for PM	9/20/00, 0/0/00		
monitors			
momtors	l l		