

Morongo Band of Mission Indians Monitoring Network Plan – June 3, 2016

The Morongo Air Monitoring Station is located within the general area of the Morongo residential area, and adjacent to the Pre-K through 4th grade campuses. The encompassing 1.6 acres is covered with dirt and gravel, and is a staging area for spare water service equipment, construction and miscellaneous supplies. The air monitoring site itself is a purpose built, 8'x10' shelter, surrounded by wood chips. Ozone and particulate matter are being monitored for comparison to the NAAQS. A NO_x monitor has been recently installed, and is anticipated for regulatory monitoring by April 2017.

There are no plans to move/remove the air monitoring station within the next 18 months. Morongo provided its last annual data certification in May 2015 to fulfill part 58.15 of the Code of Federal Regulations and will be submitting its next annual in June 2016. Audit data from NPAP audits are submitted into AQS.

Please address any questions/concerns to James Payne, Environmental Director at jpayne@morongo-nsn.gov or at 951-755-5298.



Looking north



Looking east



Looking west



Looking south

Local site name	Morongo Air Monitoring Station		
AQS ID (XX-XXX-XXXX)	TT-582-1016		
GPS coordinates (decimal degrees)	33.945, -116.830		
Street Address	12160 Santiago Rd. Banning, CA 92220		
County	Riverside		
Distance to roadways (meters)	Santiago Rd-93m; Saubel Rd-216m		
Traffic count (AADT, year)	Santiago- est. 36,500 (2014); Saubel -est. 21,900 (2014)		
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, gravel, wood chips within first 2 meters		
Representative statistical area name (i.e. MSA, CBSA, tribal land, other)	Tribal land		
Pollutant, Parameter Occurrence Code (POC)	Ozone, 1	PM2.5, 1	PM2.5, 2
Primary / QA Collocated / Other (provide for all PM25, PM10, PM10-25, Pb and N02 monitors. Non-PM, Pb, N02 monitors should be listed as "N/A".)	N/A	QA Collocated 88101	Primary
Parameter code	44201	88101	88101
Basic monitoring objective(s)	NAAQS Comparisson	NAAQS Comparison	NAAQS Comparison
Site type(s)	General	General	General
Monitor type	Tribal	Tribal	Tribal
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	N/A	N/A	N/A
Instrument manufacturer and model	Thermo 49C	Met-One BAM1020	Thermo 2000i
Method code	047	170	143
FRM/FEM/ARM/other	FRM	FEM	FRM
Collecting Agency	Morongo	Morongo	Morongo
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	Inter-Mountain
Reporting Agency	Morongo	Morongo	Morongo
Spatial scale (e.g. micro, neighborhood)	Regional	Regional	Regional
Monitoring start date (MM/DD/YYYY)	10/01/2004	10/14/2011	06/27/2013
Current sampling frequency (e.g. 1:3, continuous)	Continuous	Continuous	1:6
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	N/A 01/01-12/31	1:6	1:6
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	3.7	5.0	4.7
Distance from supporting structure (meters)	1	2.3	2.0

Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	.2	1.1	.25
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	2.9	1.8	3.2
Distance from trees (meters)	>50	>50	>50
Distance to furnace or incinerator flue (meters)	>80	>80	>80
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No
For high volume PM instrument (flow rate> 200 liters/minute), is any PM instrument within 2 m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Pyrex	Stainless Steel	Stainless Steel
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7 sec	N/A	N/A
Will there be changes within the next 18 months? (Y/N)	N	N	N
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly	N/A
Frequency of one-point QC check for gaseous instruments	bi-weekly	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	6/3/2015	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	Upcoming	Upcoming