

New Mexico Environment Department - Air Quality Bureau Annual Network Review and Monitoring Plan

Under 40 CFR, Part 58, Subpart B, States are required to submit an annual monitoring network review to their Environmental Protection Agency (EPA) regional offices. NMED will submit this plan to EPA Region VI in Dallas Texas. This network plan is required to provide the framework for establishment and maintenance of an air quality surveillance system. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to EPA.

The purpose of this document is to provide information concerning the operation of the ambient air monitoring network by the New Mexico Environment Department (NMED) Air Quality Bureau (AQB) in 2006 and to project changes to the monitoring network

Overview

In 2006 the Bureau operated 31 criteria air pollutant monitoring sites located in 11 of the State's 33 counties. All air monitoring locations are sited in major population centers or near known pollution sources. The Ambient Air Monitoring Section is working with a full-time staff of seven.

Table 1 contains a listing of all New Mexico Environment Department, Air Quality Bureau ambient air monitoring sites.

In addition, all of NMED's continuously operating air monitoring sites have data polled hourly and posted to the Department's Air Monitoring website at <http://air.state.nm.us>.

PM2.5 Federal Reference Monitor (FRM) Network

The Bureau operated nine PM2.5 FRMs at eight monitoring locations in 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Farmington	35-045-0006	(Collocation)
Rio Rancho	35-043-1003	
Santa Fe	35-049-0020	
Roswell	35-005-0005	
Hobbs	35-025-0008	
Las Cruces	35-013-0025	
Sunland Park	35-013-0017	
Silver City	35-017-1002	

The Farmington site continues to operate the only collocated sampler in our FRM PM2.5 network.

The entire monitoring station at Rio Rancho will need to be relocated in the near future. Construction of apartment units immediately adjacent to the site has impacted siting criteria.

Section staff is still looking for another suitable monitoring location in Rio Rancho. NMED hopes to relocate the Rio Rancho site to a school in Rio Rancho and some progress is being made with the Rio Rancho School District.

Continuous PM2.5 Network

The Bureau operated continuous TEOM analyzers for PM2.5 at ten monitoring locations. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Santa Fe	35-049-0020	(Collocated with FRM)
Taos	35-055-0005	
Carlsbad	35-015-1005	
Anthony	35-013-0016	
Sunland Park	35-013-0017	(Collocated with FRM)
Desert View	35-013-0021	
Santa Teresa	35-013-0022	
Hobbs	35-025-0008	
Navajo Lake	35-045-0018	
Los Lunas	35-061-0008	

The Los Lunas site was commissioned 08/24/06, and retrieval of TEOM data began 09/01/06.

PM10 Federal Reference Method (FRM) Network

The Bureau operated a total of 13 PM10 samplers at 11 monitoring locations at the end of 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Farmington	35-045-0006	
Bernalillo	35-043-0001	
Santa Fe	35-049-0020	(Collocation)
Taos	35-055-0005	
Roswell	35-005-0005	
Hobbs	35-025-0008	
Anthony	35-013-0016	
Sunland Park	35-013-0017	
Deming	35-029-0001	(Collocation)
Hurley	35-017-0009	
Silver City	35-017-1002	

The northern counties continue to report relatively low values when compared to the southern counties.

Continuous PM10 Network

The Bureau operated a total of six continuous TEOM PM10 analyzers at the end of 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Anthony	35-013-0016
Sunland Park	35-013-0017
Chaparral	35-013-0020
Holman Road	35-013-0019
West Mesa	35-013-0024
Deming Airport	35-029-0003

The Deming site was commissioned on 07/14/06, and retrieval of TEOM data began 07/18/06.

CO Network

The Bureau operated a total of three of carbon monoxide monitoring stations in 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Rio Rancho	35-043-1003
Santa Fe	35-049-0019
University Ave	35-013-1012

Carbon monoxide monitoring was discontinued at Rio Rancho on 09/30/06, and the entire University site was shut down on 09/01/06.

SO2 Network

The Bureau operated a total of five SO2 monitoring stations in 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Substation	35-045-1005
Bloomfield	35-045-1009
Sunland Park	35-013-0017
Artesia	35-015-1004
Hurley	35-017-1003

Sulfur dioxide monitoring was discontinued at Sunland Park on 10/02/06.

NO2 Network

The Bureau operated a total of ten NO2 monitoring stations at the end of 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Substation	35-045-1005
Bloomfield	35-045-1009
Rio Rancho	35-043-1003
Artesia	35-015-1004
Carlsbad	35-015-1005
Desert View	35-013-0021
Santa Teresa	35-013-0022
Hobbs	35-025-0008
Navajo Lake	35-045-0018
Deming Airport	35-029-0003

Nitrogen dioxide monitoring started at the Deming Airport site on 07/20/06.

O3 Network

The Bureau operated fourteen O3 monitoring stations in our statewide network at the end of 2006. They are listed below along with the number that identifies them in EPA's Air Quality Subsystem.

Substation	35-045-1005
Bloomfield	35-045-0009
Bernalillo	35-043-1001
Rio Rancho	35-043-1003
Carlsbad	35-015-1005
La Union	35-013-0008
Solano Road	35-013-0023
Sunland Park	35-013-0017
Chaparral	35-013-0020
Desert View	35-013-0021
Santa Teresa	35-013-0022
Hobbs	35-025-0008
Navajo Lake	35-045-0018
Deming Airport	35-029-0003

Ozone data retrieval began at the Deming Airport site on 07/19/06.

Network Changes

Anticipated changes to the monitoring network during 2007 include relocation of the former Santa Fe CO site and relocation of the Farmington PM site.

Monitoring of carbon monoxide at the Santa Fe Fire Station (35-049-0019) site was discontinued on 05/18/07, and the shelter was moved to Santa Fe Municipal Airport property (35-049-0021). At the new location, monitoring will be performed for ozone and PM 2.5.

Relocation of the Farmington PM site (35-045-0006) will be necessary due to an NMED office move sometime this year. The location of the new office and the timing of the move are yet to be determined.

As mentioned above, the Rio Rancho monitoring site (35-043-1003) will be relocated as new development has made the current monitoring site no longer suitable.

Other Projects

Northern air monitoring staff continued an EPA-sponsored project to collect passive ammonia monitoring project in San Juan County, New Mexico. This project will continue through December 31, 2007.

Depending on funding decisions, AQB will scrutinize its investment and operation of all of its monitoring sites and pollutants. Our intention is to keep focus on pollutants of concern while being sure to continue to serve the needs and to satisfy the expectations of the New Mexico communities. AQB will inform Region VI staff of our plans early in the process to make sure that state and federal priorities continue to be aligned.

Summary

Any comments pertaining to the Environment Department's Air Monitoring plan should be sent to the following contact by July 1, 2007:

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