

CITY OF ALBUQUERQUE

Environmental Health Department

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August 5, 2013



Thomas Diggs
US EPA Region VI
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Subject: 2013 Annual Network Assessment for the Albuquerque/Bernalillo County
Ambient Air Monitoring Program

Dear Mr. Diggs,

This transmission contains clarifications that result from conversations with Region VI
Monitoring staff on July 30, 2013.

PM2.5:

A monitoring change was proposed in the 2012 ANR. The change was to replace the
filter-based (gravimetric) PM2.5 FRM samplers at AIRS 35-001-0023 (POC1) and 35-
001-0024 (POC1) with continuous FEM BAMs. That change was approved by the
Region.

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During 2013 the change was partially implemented. However, problems with one of
the new devices required that it be returned to the manufacturer for repair.

As a result, in this year's ANR, Table 1 (current configuration) still shows the filter
based units in operation. Table 1A again shows replacement by a continuous FEM
BAM. Since the 2012 ANR was approved it is not enunciated as a new change. When
the BAMS installation is complete, the gravimetric units will be discontinued with an
expected completion in August of 2013. Once complete, email notification will be
sent to your staff.

Carbon Monoxide (CO)

The AQD currently monitors CO at AIRS 35-001-0029 with a Teledyne API 300
monitor. The CO monitor is old, increasingly difficult to hold in calibration, and
needs to be replaced.

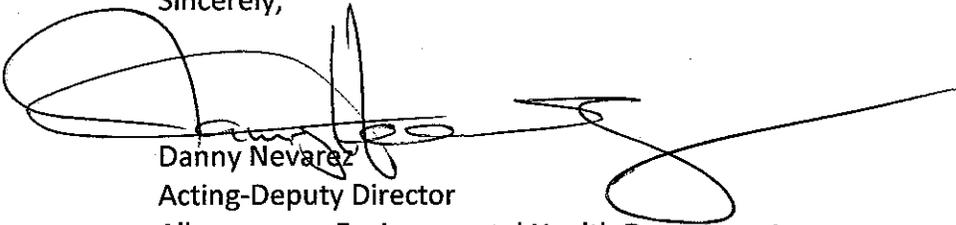
The low end of accurate readability on the API 300 is 10 ppm. The AQD network
design value based on data from 2010 – 2012 is 3.5 ppm. Under the circumstances
described, Lew Winestock (EPA) recommends replacing the existing monitor with a
high sensitivity monitor for better readability.

We have purchased a Teledyne API 300EU that has the same EPA Reference method (RFCA-1093-093) and the same Parameter Methodology Code (42101-1). We will characterize the monitor as high sensitivity CO (HS CO) in Table 1A. The new unit is currently being checked out at the site and will be activated in August of 2013. Once complete, email notification will be sent to your staff.

Updated Tables 1 and 1A are attached to this letter as documentation.

Please contact me if there any questions. Your support of our Ambient Air Monitoring Program is appreciated. Thank you for your time and consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Danny Nevarez', with a long horizontal flourish extending to the right.

Danny Nevarez
Acting-Deputy Director
Albuquerque Environmental Health Department

CC: Maria Martinez, US EPA Region 6
Kara Allen, US EPA Region 6
Fabian Macias, Albuquerque Environmental Health Department
Dan Gates, Albuquerque Environmental Health Department
Ken Lienemann, Albuquerque Environmental Health Department

Table 1 Albuquerque 2012 Ambient Air Monitoring Network

AQS Site ID#	Address/ Location	Longitude	Latitude	Pollutants Measured	Monitor Type	Sampling Method	Analysis	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
35-001-1012	2ZF Foothills Elementary 8901 Lowel NE	-106.508	35.1852	O3	SLAMS	44201-1	UV photo-metric.	continuous	Highest Concentration	Urban	Yes	Abq.
				PM2.5	Special Purpose	88502-3	Beta Absorption	continuous	Population Exposure	Neighborhood	No	Abq.
35-001-1013	2ZH North Valley 9819a Second Street NW	-106.614	35.19324	O3	SLAMS	44201-1	UV photo-metric.	continuous	Population Exposure	Neighborhood	Yes	Abq.
				PM10	SLAMS	81102-3	TEOM	continuous	Population Exposure	Neighborhood	Yes	Abq.
				PM2.5	Special Purpose	88502-3	TEOM/ FDMS	continuous	Population Exposure	Neighborhood	No	Abq.
35-001-0023-NCORE	2ZM Del Norte 4700a San Mateo NE	-106.586	35.13426	O3	SLAMS NCORE	44201-1	UV photo-metric.	continuous	Population Exposure	Neighborhood	Yes	Abq.
				HS CO	SLAMS NCORE	42101-1 593	Non-dispersive IR	continuous	Population Exposure	Neighborhood	Yes	Abq.
				HS NO2	SLAMS NCORE	42602-1	Chemiluminescence	continuous	Population Exposure	Neighborhood	Yes	Abq.
				NOy	NCORE	42600	Chemiluminescence	continuous	Population Exposure	Neighborhood	NA	Abq.
				HS SO2	SLAMS NCORE	42401	UV Fluorescence	continuous	Population Exposure	Neighborhood	Yes	Abq.
				Lead	SLAMS NCORE	14129 045	EQL-0710-192	Daily 1/6	Population Exposure	Neighborhood Scale	Yes	Abq.
				PM10	SLAMS NCORE	81102 122	Beta Absorption	continuous	Population Exposure	Neighborhood	Yes	Abq.
				^PM10-2.5	NCORE	86101 185	Beta Absorption	continuous	Population Exposure	Neighborhood	NA	Abq.
				PM2.5	SLAMS NCORE	88101-1 118	Gravimetric	Daily 1/1	Population Exposure	Neighborhood	Yes	Abq.
				PM2.5 collocated	SLAMS	88101-2 118	Gravimetric	Daily 1/6	Population Exposure	Neighborhood/	Yes	Abq.
				Speciation	NCORE	68103	(multiple)	Daily 1/6	Population Exposure	NA	NA	Abq.
Carbon Speciation	NCORE	88320, 88321	Multiple	Daily 1,6; 1/3 after 1/1/11	Population Exposure	NA	NA	Abq.				

^The two BAMS produce PM_{10-2.5} using EQPM-0709-185. The two BAMS are individually comparable to PM₁₀ and PM_{2.5} NAAQS but there is not a PM_{10-2.5} NAAQS against which one can compare.

Table 1 - Continued

AQS Site ID #	Address/ Location	Longitude	Latitude	Pollutants Measured	Monitor Type	Sampling Method	Analysis	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
35-001-0024	2ZN SE Heights 6000 Anderson Avenue SE	-106.579	35.0631	O3	SLAMS	44201-1	UV photo-metric.	continuous	Population Exposure	Neighbor hood	Yes	Abq.
				PM2.5	SLAMS	88101-1 118	Gravi-metric	Daily 1/1	Population Exposure	Neighbor hood	Yes	Abq.
35-001-0026	2ZS Jefferson 3700 Singer NE	-106.605	35.1443	PM10	Special Purpose	81102-3	TEOM	continuous	AQI – Non-Regulatory	Middle/ Source-specific	No	Abq.
				PM10	SLAMS	81102-1	Gravi-metric	Daily 1/1	Highest Concentration	Middle/ Source-specific	Yes	Abq.
				PM10 collocated	SLAMS	81102-2	Gravi-metric	Daily 1/6	Highest Concentration	Middle/ Source-specific	Yes	Abq.
35-001-0027	2ZT Taylor Ranch 5100 Montano Blvd NW	-106.697	35.1539	O3	SLAMS	44201-1	UV photo-metric.	continuous	Population Exposure	Neighbor hood	Yes	Abq.
35-001-0029	2ZV South Valley 201 Prosperity SW	-106.657	35.01708	O3	SLAMS	44201-1	UV photo-metric.	continuous	Population Exposure	Regional Scale	Yes	Abq.
				CO	SLAMS	42101-1 093	Non-dispersive IR	continuous seasonal	Population Exposure	Regional Scale	Yes	Abq.
				PM10	SLAMS	81102-3	Beta Absorption	continuous	Population Exposure	Other	YES	Abq.
				PM2.5	Special Purpose	88502-3	Beta Absorption	continuous	Population Exposure	Other	No	Abq.
35-001-0032	2ZW Westside 11850 Sunset Gardens SW	-106.761	35.0641	O3	SLAMS	44201-1	UV photo-metric.	continuous	Special Study	Neighbor hood	Yes	Abq.
				PM10	Special Purpose	81102-3	TEOM	continuous	Population Exposure	Neighbor hood	No	Abq.

Table 1A Proposed 2013 Changes to the Albuquerque Ambient Air Monitoring Network

AQS Site ID#	Address/ Location	Longitude	Latitude	Pollutants Measured	Monitor Type	Sampling Method	Analysis	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
35-001-1012	2ZF Foothills Elementary 8901 Lowel NE	-106.508	35.1852	O3	SLAMS	44201-1087	UV photo-metric.	continuous	Highest Concentration	Urban	Yes	Abq.
				PM2.5	Special Purpose	88502-3	Beta Absorption	continuous	Population Exposure	Neighborhood	No	Abq.
35-001-0023-NCORE	2ZM Del Norte 4700a San Mateo NE	-106.586	35.13426	O3	SLAMS/NCORE	44201-1087	UV photo-metric.	continuous	Population Exposure	Neighborhood	Yes	Abq.
				HS CO	SLAMS/NCORE	42101-1593	Non-dispersive IR	continuous	Population Exposure	Neighborhood	Yes	Abq.
				HS NO2	SLAMS/NCORE	42602-1099	Chemiluminescence	continuous	Population Exposure	Neighborhood	Yes	Abq.
				NOy	NCORE	42600	Chemiluminescence	continuous	Population Exposure	Neighborhood	NA	Abq.
				HS SO2	SLAMS/NCORE	42401-1100	UV Fluorescence	continuous	Population Exposure	Neighborhood	Yes	Abq.
				Lead	SLAMS/NCORE	14129045	EQL-0710-192	Daily 1/6	Population Exposure	Neighborhood Scale	Yes	Abq.
				^PM10	SLAMS/NCORE	81102122	Beta Absorption	continuous	Population Exposure	Neighborhood	Yes	Abq.
				^PM10-2.5	NCORE	86101185	Beta Absorption	continuous	Population Exposure	Neighborhood	NA	Abq.
				PM2.5	NCORE	88101-1731	Beta Absorption	continuous	Population Exposure	Neighborhood	Yes	Abq.
				PM2.5 collocated	SLAMS	88101-2118	Gravimetric	Daily 1/6	Population Exposure	Neighborhood/	Yes	Abq.
				Speciation	NCORE	68103	(multiple)	Daily 1/6, 1/3 after 1/1/11	Population Exposure	NA	NA	Abq.
Carbon Speciation	NCORE	88320, 88321	(multiple)	Daily 1,6; 1/3 after 1/1/11	Population Exposure	NA	NA	Abq.				

^The two BAMS produce PM_{10-2.5} using EQPM-0709-185. The two BAMS are individually comparable to PM₁₀ and PM_{2.5} NAAQS but there is not a PM_{10-2.5} NAAQS against which one can compare.

Table 1A - Continued

AQS Site ID #	Address/ Location	Longitude	Latitude	Pollutants Measured	Monitor Type	Sampling Method	Analysis	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
35-001-0024	2ZN SE Heights 6000 Anderson Avenue SE	-106.579	35.0631	O3	SLAMS	44201-1 087	UV photo-metric.	continuous	Population Exposure	Neighborhood	Yes	Abq.
				PM2.5	SLAMS	88101 170	Beta Absorption	continuous	Population Exposure	Neighborhood	Yes	Abq.
35-001-0026	2ZS Jefferson 3700 Singer NE	-106.605	35.1443	PM10	Special Purpose	81102-3	TEOM	continuous	Population exposure	Middle/ Source-specific	No	Abq.
				PM10	SLAMS	81102-1 127	Gravi-metric	Daily 1/1	Highest Concentration	Middle/ Source-specific	Yes	Abq.
				PM10 collocated	SLAMS	81102-2 127	Gravi-metric	Daily 1/6	Highest Concentration	Middle/ Source-specific	Yes	Abq.
35-001-0029	2ZV South Valley 201 Prosperity SW	-106.657	35.01708	O3	SLAMS	44201-1 087	UV photo-metric.	continuous	Population Exposure	Regional Scale	Yes	Abq.
				HS CO	SLAMS	42101-1	Non-dispersive IR	continuous	Population Exposure	Regional Scale	Yes	Abq.
				PM10	SLAMS	81102 122	Beta Absorption	continuous	Population Exposure	Neighborhood	Yes	Abq.
				PM2.5	Special Purpose	88502-3	Beta Absorption	continuous	Population Exposure	Neighborhood	No	Abq.
35-001-0032	2ZW Westside 11850 Sunset Gardens SW	-106.761	35.0641	O3	SLAMS	44201-1 087	UV photo-metric.	continuous	Special Study	Neighborhood	Yes	Abq.
				PM10	*Special Purpose	81102-3	TEOM	continuous	Population Exposure	NA	No	Abq.

*Siting criteria are not good for PM SLAMS. Other than monitoring in conjunction with Ozone, purpose is to establish neighborhood baseline prior to development.