



GREAT BASIN UNIFIED AIR POLLUTION CONTROL DISTRICT

157 Short Street, Bishop, California 93514-3537
760-872-8211 Fax: 760-872-6109

May 17, 2013

Jen Daugherty
Associate Planner
Town of Mammoth Lakes
P.O. Box 1609
Mammoth Lakes, CA 93546

RE: 2012-2013 Mammoth Lakes PM10 and Meteorological Summary

Dear Ms. Daugherty:

The Great Basin Unified Air Pollution Control District has monitored air quality in the Town of Mammoth Lakes since 1984. We recently finalized the data completing the 2012-2013 air monitoring year ending March 15, 2013. We are pleased to provide you this summary of air quality measurements recorded by GBUAPCD between March 16, 2012 and March 15, 2013.

During this period, federal PM10 standards ($150 \mu\text{g}/\text{m}^3$ for a 24-hour average) were not exceeded. However, state PM10 standards ($50 \mu\text{g}/\text{m}^3$ for a 24-hour average) were exceeded on nineteen (19) days, as follows.

Date	PM10 Average ($\mu\text{g}/\text{m}^3$)	Date	PM10 Average ($\mu\text{g}/\text{m}^3$)
12/20/2012	53	*1/19/2013	76
*12/31/2012	56	*1/20/2013	68
*1/1/2013	76	*1/21/2013	56
1/2/2013	66	1/22/2013	55
1/3/2013	81	1/31/2013	50
1/4/2013	95	2/1/2013	66
1/8/2013	51	*2/9/2013	50
1/16/2013	66	*3/9/2013	58
1/17/2013	72	*3/10/2013	54
1/18/2013	77		

*-Denotes weekend or holiday exceedances.

For comparison purposes, there were twenty (25) exceedances between March 16, 2009 - March 15, 2010, thirty-three (33) exceedances between March 16, 2010 - March 15, 2011 and five (5) exceedances between March 16, 2011 – March 15, 2013. The attached graph shows daily average PM10 values during 2012 - 2013 superimposed on values from the previous three years for timing comparison purposes.

Note that 8 out of the 19 exceedance days (42%) occurred on weekends or holidays. For comparison, 4 out of the 5 exceedance days (80%) in 2011 -2012, 6 out of the 33 exceedance days (18%) in 2010-2011 and 14 out of the 25 exceedance days (56%) in 2009-2010 occurred on weekends or holidays.

Meteorological conditions during elevated PM10 days are useful for interpreting these results. Prolonged periods of calm winds from December 31, 2012 – January 4, 2013 and from January 16 – January 22, 2013 coincided with elevated PM10 above the state standard on 5 and 7 consecutive days respectively. On these days, maximum hourly average wind speeds always remained below 6 mph. Similarly, all other state PM10 exceedances during the 12-13 air monitoring year fell on days with minimal wind activity. Wood smoke and road cinder dust associated with anthropogenic activities coupled with meteorological atmospheric inversion conditions predominately contributed to poor air quality on these calm days.

Please contact me with any questions you may have.

Thank you,



Theodore D. Schade
Air Pollution Control Officer

Enc.

1205151



Town of Mammoth Lakes - PM10

March 16, 2012 - March 15, 2013

