APPENDIX 2007-H
VISIBILITY IMPAIRMENT FOR OTHER CLASS I AREAS/

The Western Regional Air Partnership (WRAP) has modeled the impacts of emissions on Class I areas in the west as part of their assistance in development of the Regional Haze SIPs for 309 and 308 states. However, the WRAP has not yet analyzed the effects on Class I Areas from emissions at the individual county scale. This puts Bernalillo County, which acts as a 'state', in a predicament. Without county-level modeling, the required analysis of the effects upon Class I Areas caused by Bernalillo County's emissions, will be qualitative and not quantitative. It is anticipated that the WRAP will complete the modeling of Bernalillo County's effects on visibility at Class I Areas within New Mexico, at its' earliest convenience, and this data will be incorporated into a SIP revision in the future. Therefore, the qualitative analysis will consist of the following:

1. Emissions inventory data showing emissions by State, by County and by Bernalillo County, as well as by pollutant. This data provides a rough estimate of the percentage of the State's overall emissions that is generated by Bernalillo County, as well as the percentage of Bernalillo County's share of the emissions inventory as it relates to the impact on visibility each pollutant has at each individual Class I Area. The pollutants included in this analysis include: Sulfur Oxide (SOx), Nitrogen Oxide (NOx), Organic Carbon (OC), Elemental Carbon (EC), Fine Particulate Matter (PMf), Coarse Particulate Matter (PMc), Ammonia, Volatile Organic Compounds (VOCs), and Carbon Monoxide (CO).

2. Bar graphs of the potential effects of New Mexico's emissions on Class I Areas on 20% worst visibility days. These graphs give an estimate of which pollutant is the most significant in the impairment of visibility at that Class I Area. The pollutants included in this analysis include OC, EC, PMf, and PMc for each Class I Area in New Mexico.

3. Mapping of the normalized weighted emission potential (WEP) for each pollutant using 2000-04 baseline data and 2018 predicted emissions. WEP values are a function of emissions multiplied by residence time divided by distance from source. These maps will give a rough estimate as to the proximity of elevated WEP% values to Bernalillo County. The pollutants included in this analysis included OC, EC, PMf, and PMf, for each Class I Area in New Mexico.