

## Bradley Werling

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**From:** Ronn Smith [rsmith@imlinc.com]  
**Sent:** Thursday, July 18, 2013 11:02 AM  
**To:** Bradley Werling  
**Cc:** John Mays  
**Subject:** D-B 1st high PM10/PM2.5 for PSD discussion

Bradley,

Confirming our phone conversation of this morning, following is the highest modeled 1<sup>st</sup> high 24-hour PM<sub>2.5</sub> concentration for the Wind Cave boundary receptors. The 2<sup>nd</sup> high for any year of the modeling period must be less than this value, and is therefore under the allowable Class I PSD increment of 2 µg/m<sup>3</sup>.

Easting UTM = 633859, Northing UTM = 4828062, Concentration = 0.45 µg/m<sup>3</sup>

The modeled 1<sup>st</sup> high 24-hour PM<sub>10</sub> concentrations at the Wind Cave boundary were barely above the Class I increment of 8 µg/m<sup>3</sup> at three receptors.

Easting UTM = 634196, Northing UTM = 4829651, Concentration = 8.30 µg/m<sup>3</sup>

Easting UTM = 633859, Northing UTM = 4828062, Concentration = 8.23 µg/m<sup>3</sup>

Easting UTM = 633849, Northing UTM = 4829656, Concentration = 8.20 µg/m<sup>3</sup>

The 4<sup>th</sup> high values at these receptors during the 3-year period were 0.84, 1.66 and 0.79 µg/m<sup>3</sup> respectively. It seems reasonable to assume the 2<sup>nd</sup> high values would be less than 8, especially the 2<sup>nd</sup> high for any single year. Also of note, these results were obtained without dry depletion, which was only used for the top 50 receptors overall.

I hope this information will be useful for the SEIS. For any interested party, the 1<sup>st</sup>-high numbers can be found in the 24H1GALL.PLT files produced by AERMOD for PM<sub>2.5</sub> and PM<sub>10</sub>.

Best regards,  
Ronn