



Missouri  
Department of  
Natural Resources

**Southeast Missouri Ozone Designation Process Meeting Three**  
**Conservation Campus Nature Center**  
**Cape Girardeau, MO**  
**10 a.m. – 12 p.m.**  
**Oct. 1, 2008**

**Staff Members Present**

Aaron Basham  
David Lamb  
Jeff Bennett  
Rebecca Birke Scheuler

**Others Present by Attendance Record**

Albert Fults, Ste. Genevieve County  
Schuyler Johnson, CLC  
Mitch Robinson, MAGNET  
Ken Eftink, City of Cape Girardeau  
Jack Lakenan, Perry County EMA  
Chauncy Bucheit, SEMO RPC  
Debbie Gahan, Mayor of Perryville  
Stan Petzoldt, East Perry Lumber Co  
Bill Lewis, City of Perryville  
Kimberly Lagomarsino, Mississippi Lime  
Carl Leuckel, Perry County  
Jim Lunan, Holcim Inc.  
Cindy Rollett, TGMO  
Francis Toohey, Jr., City of Frohna  
Larry Tucker, Perry County  
Kathy Waltz, Hon. Russ Carnahan's Office  
David Grimes, SEMO RPC  
Richard Knaup, Cape County EMA  
Kelly Green, City of Cape Girardeau  
Enos Criddle, TGMO

**Opening Remarks**

David Lamb opened the meeting with a welcome to all and explanation of what today's presentation would entail. We will discuss the new ozone standard and what areas of the state will be included in a nonattainment area. This will be a county by county evaluation and this is our initial draft. There will still be opportunities to comment on this recommendation. We will do our best to answer any questions you have about this evaluation. He then introduced Jeff Bennett who would be giving today's presentation.

Jeff explained that this is our third meeting. We will explain our recommendation and the rationale behind these decisions. We have attempted to make this process as transparent as possible. So, please ask questions along the way. We will only focus on the Missouri counties today.

The standard is 75 ppb. The Farrar monitor and the Bonne Terre monitor are in violation of that standard. The area meets the standard if the design value is less than or equal to 75 ppb. The lower this gets, obviously, the harder it will be to achieve the standard.

The ozone season ends at the end of October, and right now the Farrar monitor is sitting right at 77 ppb.

**Question:** How do you come to the conclusion that the St. Louis area is not affecting the violating monitors in this area? **Answer:** Most of the exceedances we see are a result of southerly winds. Also, we see contribution from the east. What we don't see are trajectory or wind flows coming from the St. Louis area on the days when high ozone is recorded.

There are two tests: Does a monitor in the area violate the standard? Do VOC and NOx emission sources in each county contribute to ozone concentrations over the standard in a nearby area?

It is about emissions sources and where you're located in relation to that violating monitor. The wind direction plays a roll in this. The nearest MSA to a particular area is the default nonattainment area and that is where we start. This is not where you stop, though.

#### **Draft Recommendation – Southeast Missouri**

Cape Girardeau and Perry will be designated as nonattainment. All other counties in the area are attainment. St. Francois and Ste. Genevieve will be included in the St. Louis nonattainment area.

Perry County has a violating monitor and Cape Girardeau County contributes to that violating monitor.

Contribution Summary shows the total of VOCs, NOx and population. This shows a comparison of all counties. Cape Girardeau emits almost 60 percent of the VOCs for the MSA. This is just an evaluation tool, comparing the counties apples to apples without the met data.

#### **County by County Summary – see slides for further details.**

Perry County – Nonattainment. This county has combined emissions under 15 tons per day. There is a violating monitor, though. It has low VMT, and the met analysis shows that southerly air flow through this county and those of the south frequently contribute to the violating monitor.

Ste. Genevieve County – St. Louis Nonattainment Area. Met data is supportive of frequent contribution to St. Louis and is not supportive of frequent contribution to the Farrar monitor. Its combined emissions are over 30 tons per day.

St. Francois County – St. Louis Nonattainment Area. This county's Bonne Terre monitor is a violating monitor. It is very connected to the St. Louis Metro Complex. There are many vehicles

miles traveled between them and St. Louis. This county's met data does not support frequent contribution to the Farrar monitor.

Cape Girardeau County – Nonattainment. Met data is supportive of frequent contribution to the Farrar monitor. It has a medium VMT level. It is a sizeable emitter of NOx at 16 tons per day.

**Question:** What sources make up the emissions in Cape Girardeau County? **Answer:** It is a combination of all sources. It is a hybrid of sources. Mobile sources are part of it, but not all of it. There is no “smoking gun”.

**Question:** Where do we get the emission projections for 2009? **Answer:** We estimated emission for 2002. We then take actual on the ground point source data and put that into the model. VMT, population growth and other factors get evaluated as well. Then we get this projection. While it is an estimate, it is the best information that we have. We find that these estimates give us the mechanism to evaluate what the potential sources are for this area.

**Question:** What happens if your numbers are over-estimated? **Answer:** We do have actual data for all the industrial sources. This is based on solid testing and monitoring from these facilities. That is the starting point.

The real question we are trying to answer here is “does a county contribute to ozone formation?” Everyone contributes to everyone, but to what extent. We are not here to decide what regional controls are necessary. We are trying to determine who has unhealthy air quality.

**Question:** When a county is included in a nonattainment area, are the controls for each county all the same? **Answer:** Not exactly, no. The industry here is different than those in St. Louis. We will control sources to be the most effective for the least cost. We are not only interested that you breathe clean air; we want the community to be healthy economically. Some of the St. Louis area controls would work here, but not all.

Scott County – Attainment. It has combined emissions over 20 tons per day. The met analysis shows some contribution to Farrar, but there is very limited connection to Perry County. There is a flat projection in terms of growth.

Bollinger County – Attainment. There is limited connection between this county and Cape and Perry counties. There is low VMT. There is a population of less than 20,000.

### **Timeline**

Our recommendation is due to EPA in March 2009. Final designations will be made by March 2010.

The closer you are to meeting the standard, the less time you have to get your ozone numbers down. The range could be between 2013 and 2030.

**Question:** Once you are in, is there any way to get out? **Answer:** The Clean Data Policy allows for a county to show attainment of the standard and then we could potentially request a redesignation for the area. Once controls are in place, however, they have to stay. There is an

anti-backsliding rule. So, keeping the controls that were operating, an area could also be redesignated as attainment.

Local communities that are close to the standard can take control of their own destiny. Voluntary measures implemented on the local level can help. The concept of fixing your own problem is always an option. It is in your best interest to discuss what you do on a local level to make a difference in air quality.

Review the technical data on the Web page. Provide comments on the recommendation or data, if necessary. The presentation will be posted soon. The recommendation will go through the formal Missouri Air Conservation Commission process. This will go to formal public comment on Nov. 4. The public hearing will take place on Dec. 4 in Jefferson City. The formal adoption is projected for February and will be submitted to the Governor's Office for signature and then EPA will receive it for review.