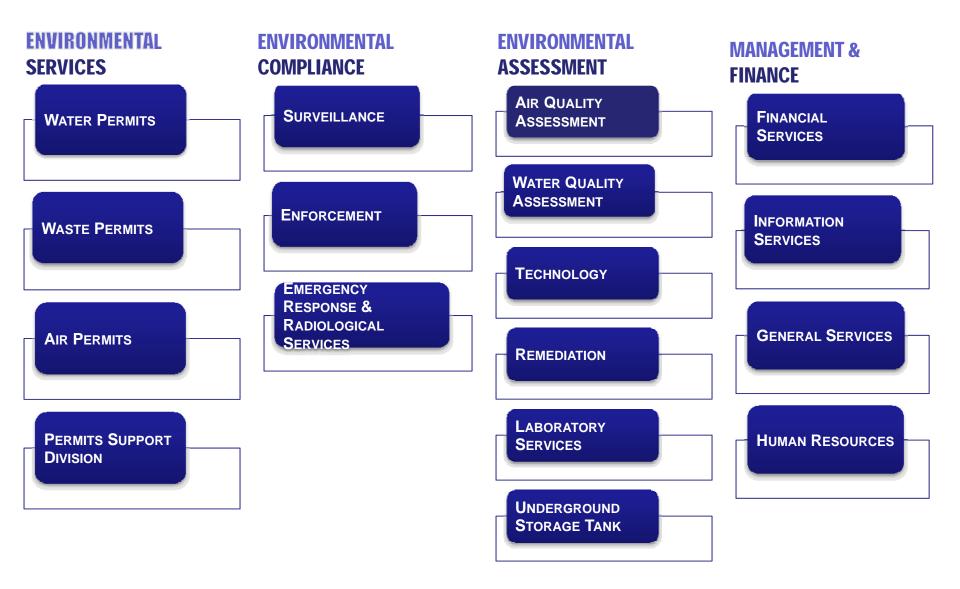


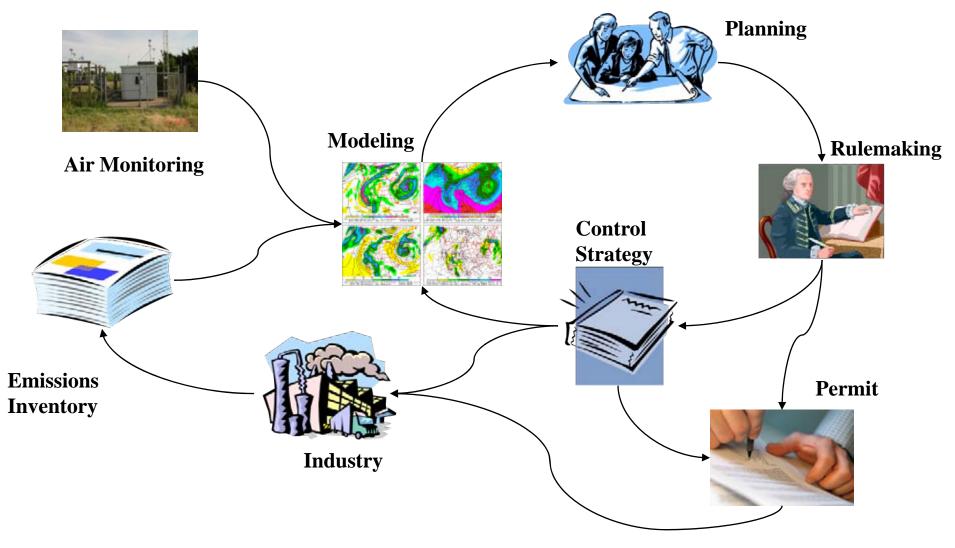
Ozone 101 for AWMA Young Professionals

Presented by: Vivian H. Aucoin, ES Supervisor Air Quality Assessment Division La. Dept. of Environmental Quality

OFFICE ORGANIZATIONAL CHART



Air Quality Management Process





Introduction



- Why are we so concerned about ozone?
 - What is ozone and how does it form?
 - The Clean Air Act: How does it protect your health?
- What is the new ozone standard and how does it affect Louisiana?
 - What are monitors and what do they tell us?
 - What are the impacts of the new standard? Timeline?
- What are the next steps?
 - Control strategies and solutions both State & Federal
 - Voluntary Measures



What is Ozone?

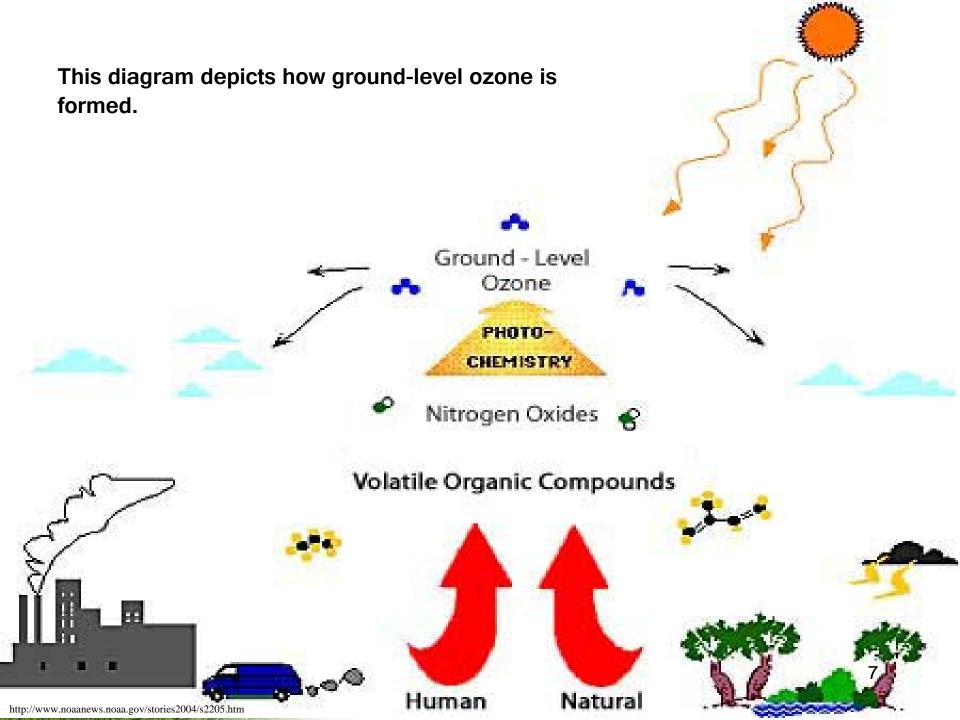


- Ozone is commonly referred to as smog.
- It is not emitted, but forms in the atmosphere under certain conditions
- Volatile Organic Compounds (VOC) + Nitrogen
 Oxides (NOx) + Sunlight = Ozone
- In other words, emissions from industry + cars
 + human activities + nature + sunshine = ozone

Ozone: Good up high, Bad near by



In the stratosphere, ozone protects us from the sun's harmful ultraviolet rays, but turns to smog in the troposphere.





THE CLEAN AIR ACT AND HEALTH



The Clean Air Act Amendments of 1990

- The main goal of the Clean Air Act is to protect human health and welfare.
- Requires EPA to set National Ambient Air Quality Standards for 6 Criteria Pollutants;
- The 6 pollutants are: Carbon Monoxide, Lead, Nitrogen Dioxide, Ozone, Particulate Matter and Sulfur Dioxide;
- As of December 31, 2008, Louisiana is monitoring attainment of all NAAQS;



Ozone and Health









The New Ozone Standard



How will it affect Louisiana?



8-Hour Ozone Standard: The Revision for 2008

On March 12, 2008, EPA announced a new primary 8-hour ozone standard of 0.075 parts per million (ppm). The secondary standard was set identical to the primary.

26 parishes may potentially be designated nonattainment based on monitor data showing design values* above 0.075 ppm.

*Design Value – the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentration measured at each monitor within an area.



Reconsideration of 2008 Ozone NAAQS

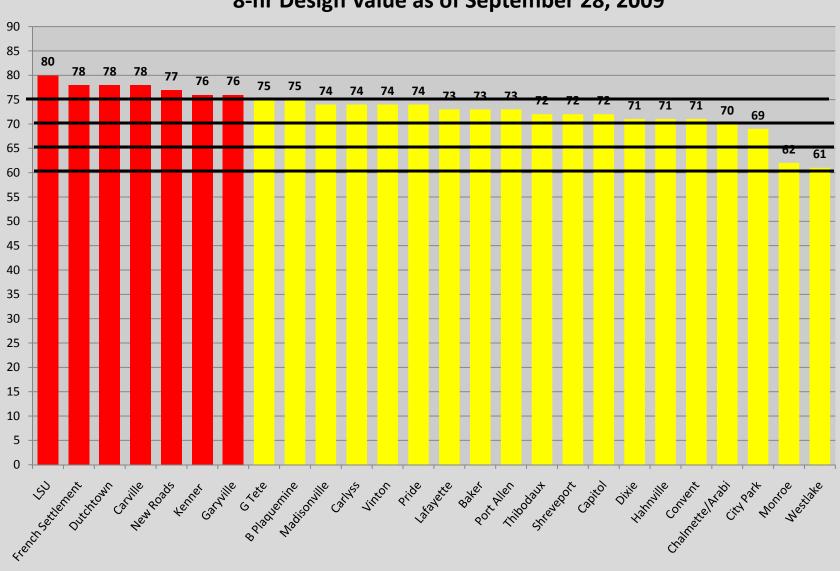
- On September 16, 2009 the Obama Administration announced that it would reconsider the 2008 Ozone NAAQS.
- EPA wants to ensure that they are clearly grounded in science, protect public health with an adequate safety margin and are sufficient to protect the environment.



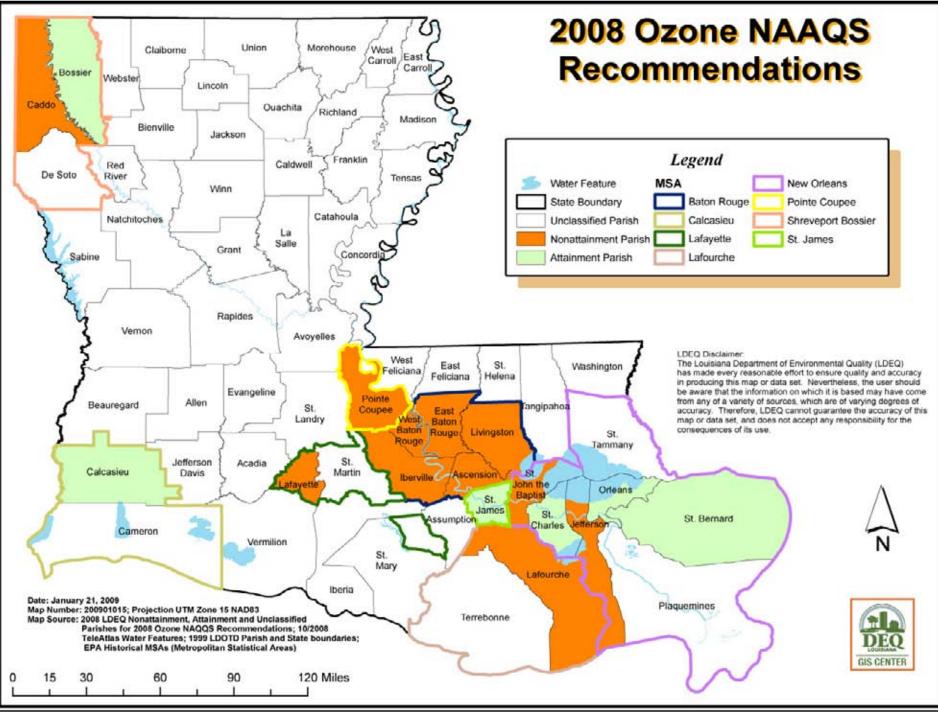
The Reconsideration Timeline

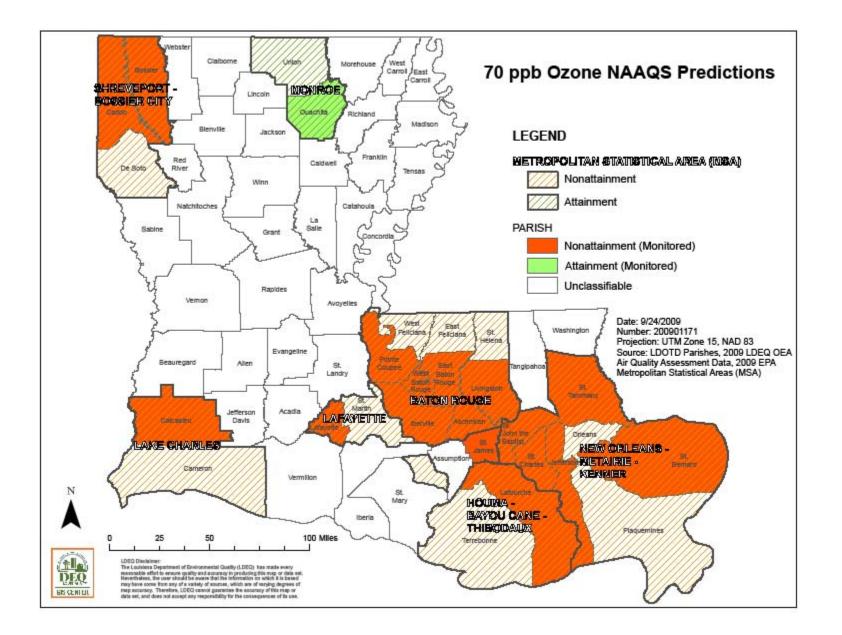
The anticipated implementation schedule for this new standard is as follows:
 Proposed Reconsidered NAAQS
 EPA Final Reconsideration
 EPA Final Designations
 SIPs Due
 SIPs Due
 Attainment Dates
 2013 – 2030 (depends on severity of problem)

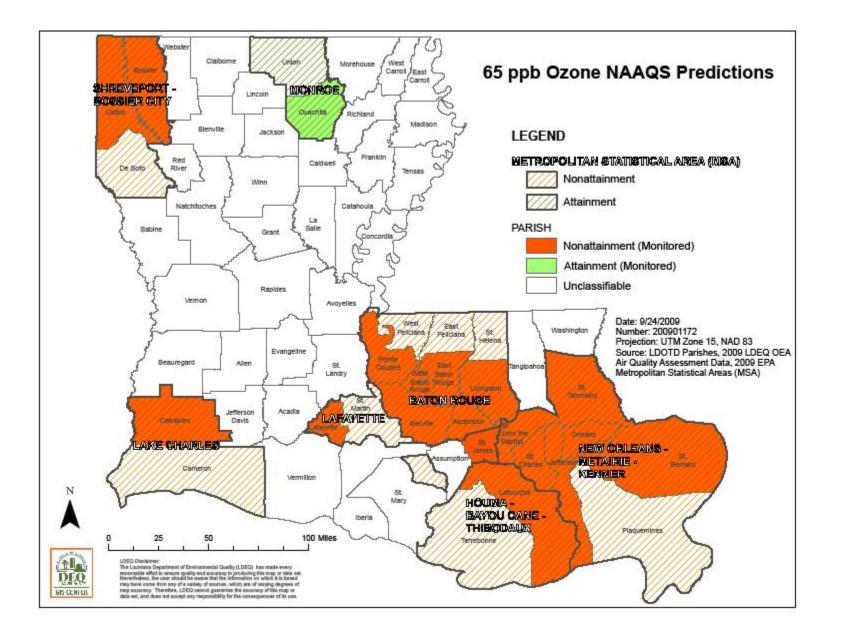
It should be noted that this schedule is subject to change due_to on going litigation.

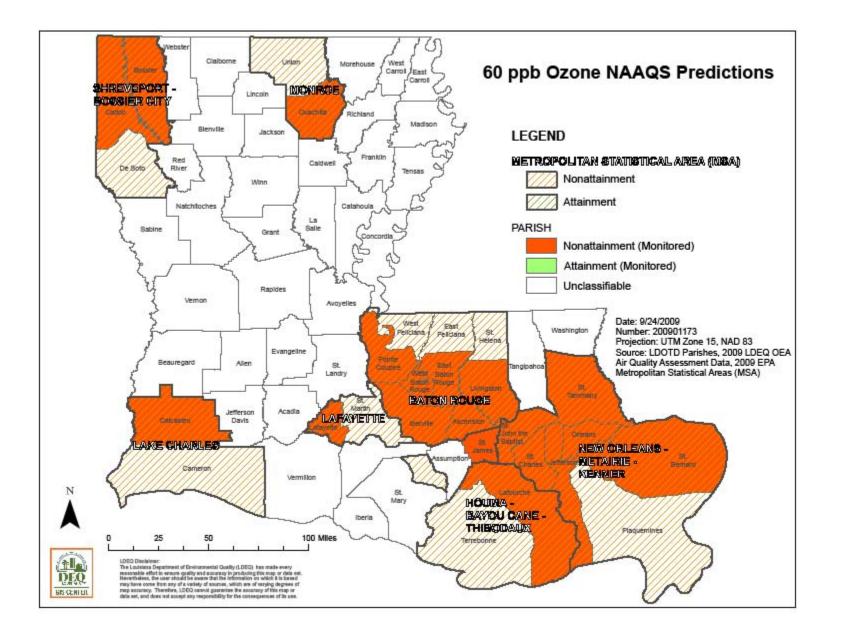


8-hr Design Value as of September 28, 2009











Designations and Classifications

- <u>Designation</u> refers to whether or not an area is above or below the standard
- <u>Classification</u> categories are determined based on an area's ozone concentration.



Impacts of the Standard on New Nonattainment Parishes

- Changed Emission Inventory Requirements
- Lowered Major Source Thresholds
- New Source Review
- Emission Offsets
- RACT Requirements
- Transportation Conformity/General Conformity
- Automobile Inspection/Maintenance
- Regulations on small businesses (bakeries, dry cleaners, paint shops, etc.)



So now what?



Rules

- On the Federal side:
- Fuel rules like the ultra low sulfur diesel rule;
- Locomotive and marine rules

- On the State side:
- VOC rules
- NOx rules
- Fugitive emissions
- Working with area sources as well as mobile sources



Voluntary Programs

- Ozone Action Days
- Businesses instituting flex time or telecommuting
- Buy a hybrid
- Bicycle lanes

- Green light districts
- Transportation
 control measures
- Use of low VOC products, like paints



Ozone Resources

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