

EPA report ranks West Virginia 21st in toxic emissions

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EPA report ranks West Virginia 21st in toxic emissions

By MARY MASSINGALE - The Associated Press

CHARLESTON -- West Virginia ranks 21st in the nation in toxic emissions -- unchanged from 1999, according to a comprehensive study released Thursday by the Environmental Protection Agency.

The Toxics Release Inventory monitors the annual release of toxic chemicals reported by industrial and manufacturing companies across the nation.

This report is based on data from 2000.

Nevada, Utah, Arizona, Alaska and Texas lead the nation in toxic emissions -- rankings unchanged from last year.

In West Virginia, 189 facilities released 97.7 million pounds of toxic pollutants, with hydrochloric acid making up nearly three-fourths of those toxins. In 1999, 174 facilities emitted 100.5 million pounds of toxins.

Other state rankings

States surrounding West Virginia and their ranking by the EPA's Toxics Release Inventory:

- Ohio, sixth.
- Pennsylvania, seventh.
- Kentucky, 20th.
- Virginia, 22nd.

On the Web

EPA Toxics Release Inventory

**“Are the chemicals in the air
hurting me or my family”**

Norco Louisiana



West Site

East site

USGS



Engagement



Trust

Knowledge

Technical Team Charter

- What is in the air?
- Is my neighborhood different than others in Norco?
- Are the levels safe?

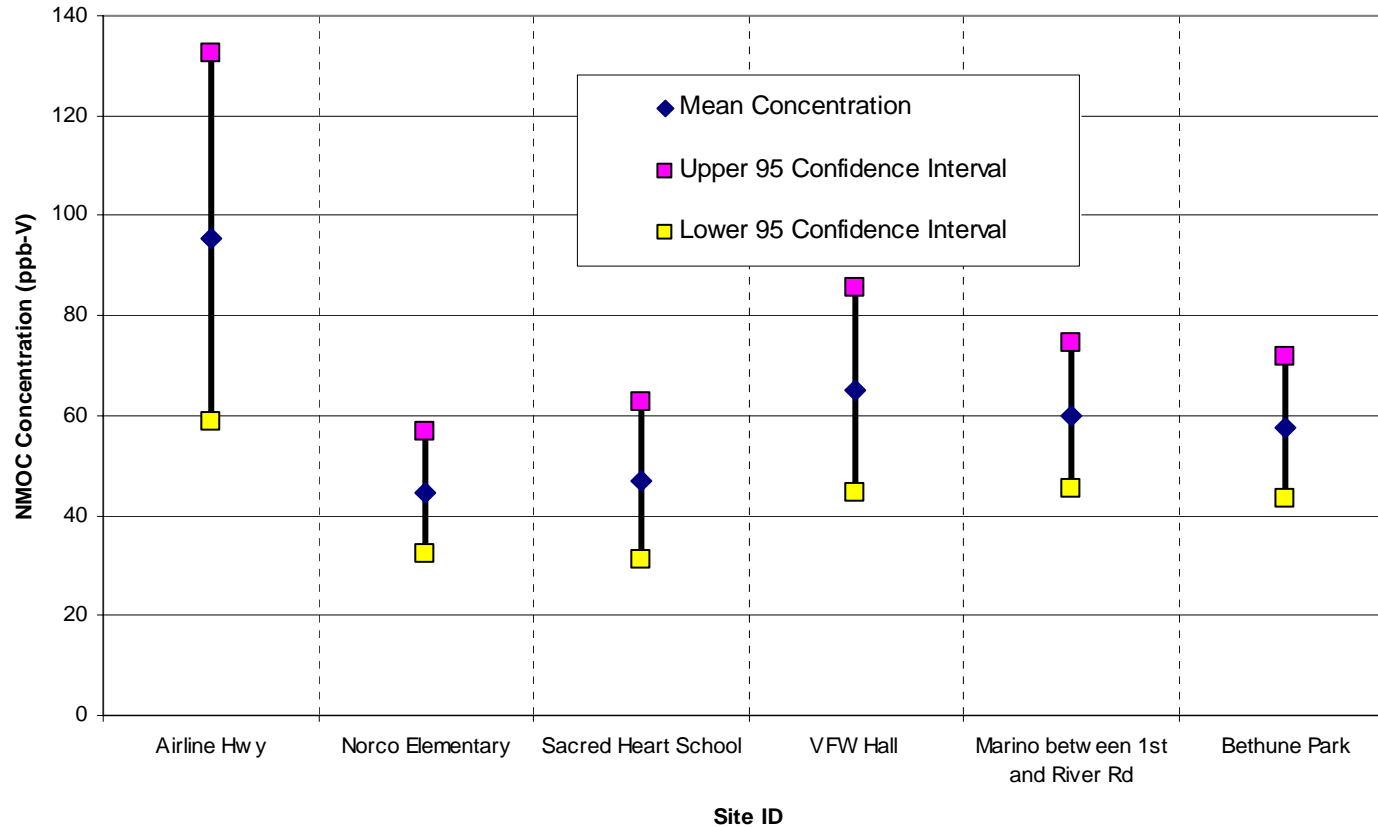
Norco Community Ambient Monitoring Study – Site Locations (Phase 1)



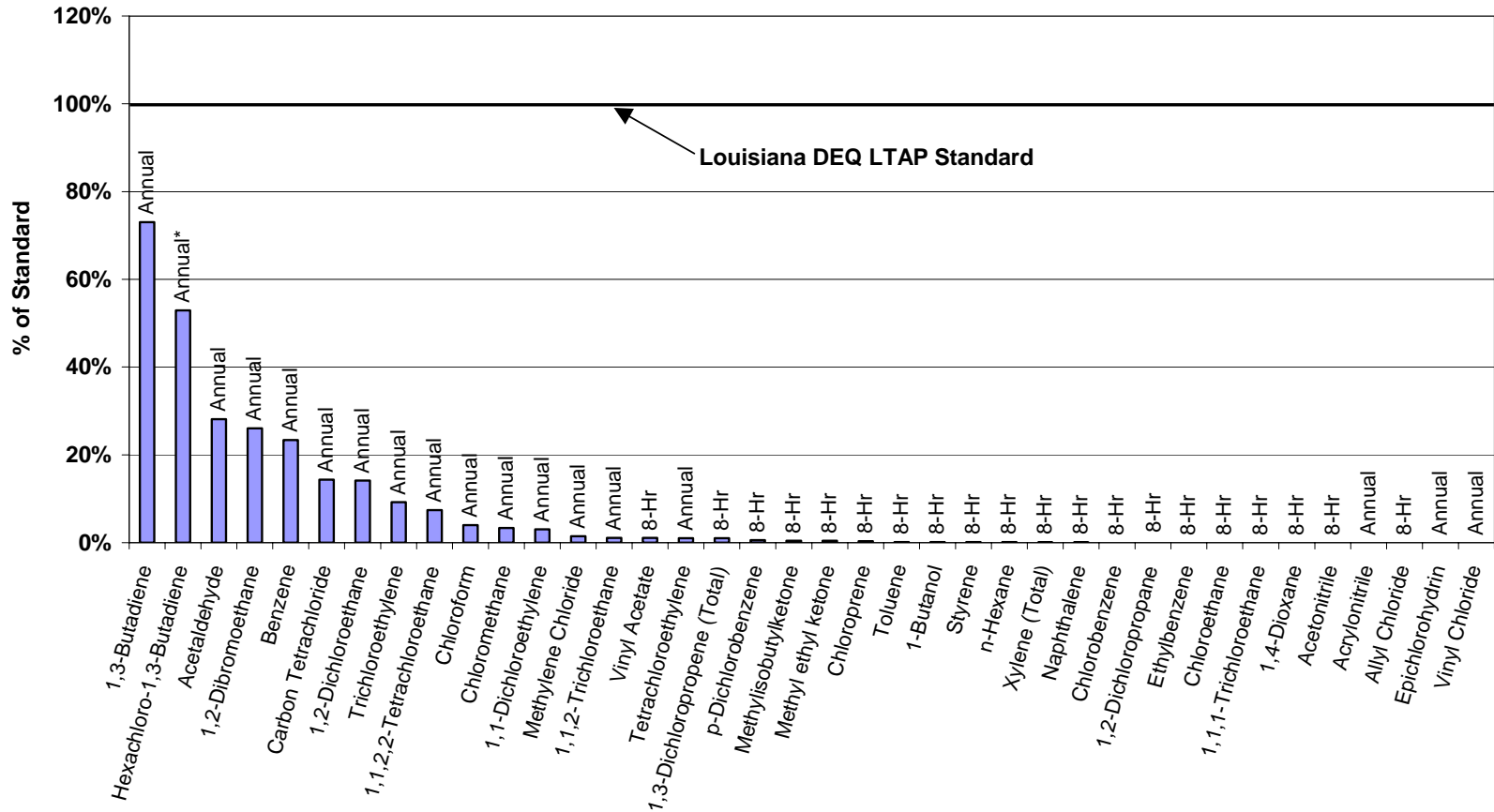
What Were the Most Abundant Species (based on average concentration) Measured in Norco?

| Compound | Airline Hwy | Norco Elem. School | Sacred Heart School | VFW Hall | Marino b/w 1st and River Rd. | Bethune Park |
|--------------------------------|--------------|--------------------|---------------------|--------------|------------------------------|--------------|
| Ethane | 34.69 | 6.95 | 7.00 | 11.21 | 9.22 | 8.70 |
| Propane | 14.27 | 4.52 | 5.20 | 8.93 | 6.13 | 5.74 |
| n-Butane | 5.51 | 2.51 | 2.81 | 4.83 | 5.52 | 3.31 |
| Ethylene | 5.22 | 2.52 | 1.91 | 2.62 | 2.24 | 2.12 |
| Acetaldehyde | 4.41 | 3.70 | 4.25 | 4.06 | 3.56 | 5.36 |
| Propylene | 4.17 | 3.08 | 2.06 | 3.85 | 3.37 | 2.63 |
| Acetone | 4.10 | 3.39 | 4.13 | 4.43 | 3.72 | 4.60 |
| Isobutane | 2.71 | 1.22 | 1.63 | 3.12 | 2.81 | 1.80 |
| Ethanol | 2.39 | 2.36 | 2.24 | 2.28 | 2.09 | 2.81 |
| n-Pentane | 1.89 | 0.69 | 0.88 | 1.45 | 1.47 | 0.99 |
| Toluene | 0.87 | 0.80 | 0.92 | 0.88 | 0.91 | 0.88 |
| 2-Propanol | 0.87 | 0.95 | 2.57 | 1.14 | 3.34 | 3.65 |
| Acetylene | 0.86 | 0.66 | 0.57 | 0.68 | 0.70 | 0.59 |
| Chloromethane | 0.73 | 0.71 | 0.70 | 0.66 | 0.68 | 0.66 |
| Dichlorodifluoromethane | 0.64 | 0.63 | 0.63 | 0.61 | 0.62 | 0.61 |
| Isohexane | 0.60 | 0.28 | 0.31 | 0.53 | 0.55 | 0.37 |
| Isobutene + 1-Butene | 0.59 | 0.65 | 0.36 | 0.54 | 0.84 | 0.61 |
| Benzene | 0.57 | 0.35 | 0.36 | 0.63 | 0.53 | 0.42 |
| Methyl Ethyl Ketone | 0.46 | 1.11 | 1.07 | 1.66 | 2.52 | 3.18 |
| Chlorodifluoromethane | 0.42 | 0.42 | 0.50 | 0.65 | 0.37 | 0.48 |
| Sum of Top 20 | 85.97 | 37.50 | 40.09 | 54.75 | 51.18 | 49.51 |
| Sum of All VOC | 95.44 | 44.58 | 46.93 | 64.55 | 60.04 | 57.67 |
| Percent of Top 20 VOC's | 90.1% | 84.1% | 85.4% | 84.8% | 85.2% | 85.9% |

Total VOC Concentration Trends in Norco Community AAM Network for Period 09-23-02 to 11-16-02

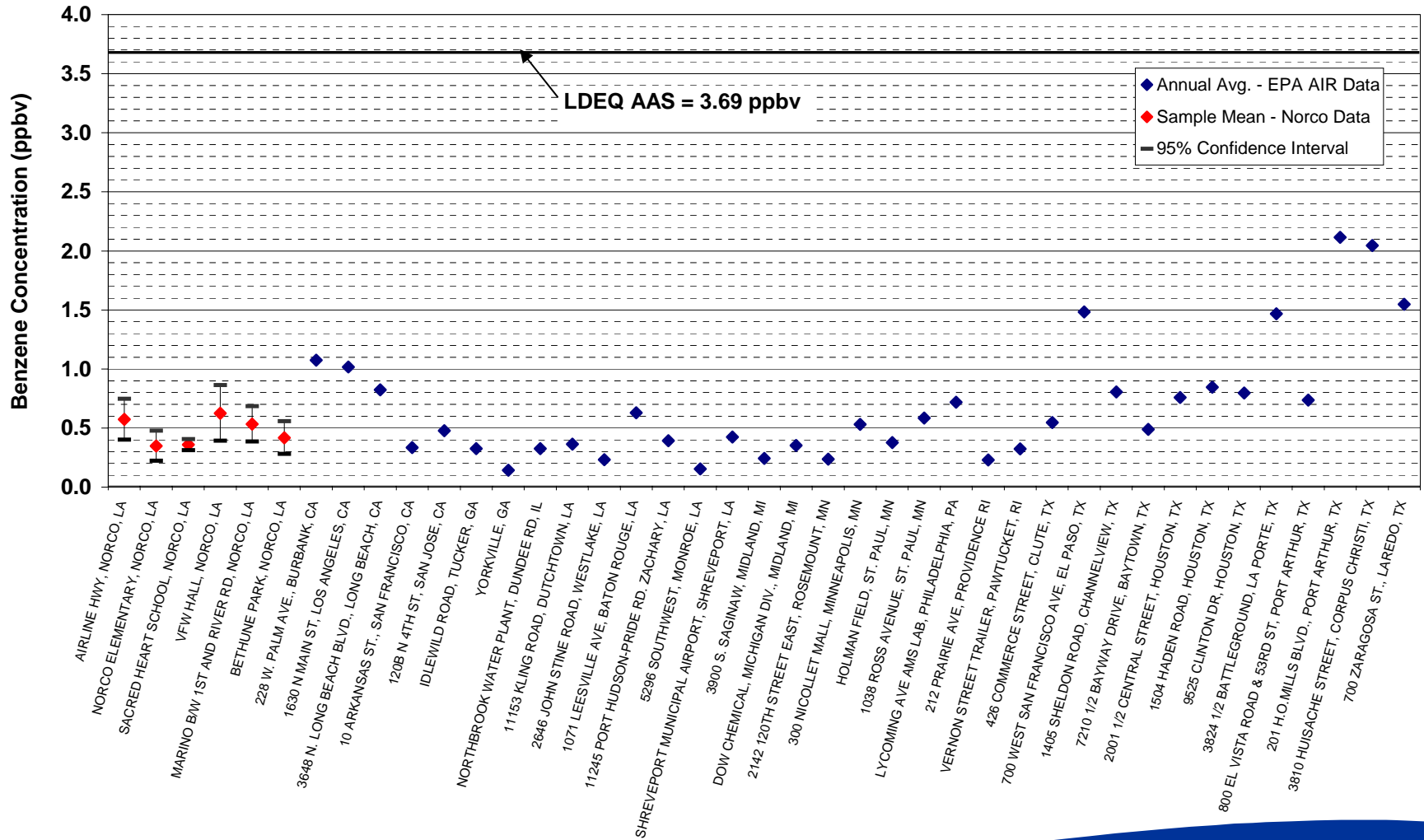


Comparison of Phase I VOC Monitoring Results with Applicable LDEQ Ambient Air Standards



* Suspected laboratory artifact

Comparison of Mean Benzene Measurements from Norco AAM Community Study (9-23-02 to 11-16-02) with Annual Averages from Selected U.S Cities (EPA AIRData - Year 2001)



Communication Activities

- Community Speakers
- Newsletter
- Presentations
- Web Sites (www.shellus.com/norco)
- Public Access Video

Phase II

- Identified target compounds
- Rapid communication methods
- On line VOC analyzer with sample trigger
- Narrowing sample locations
- SWAT team

QUESTIONS