

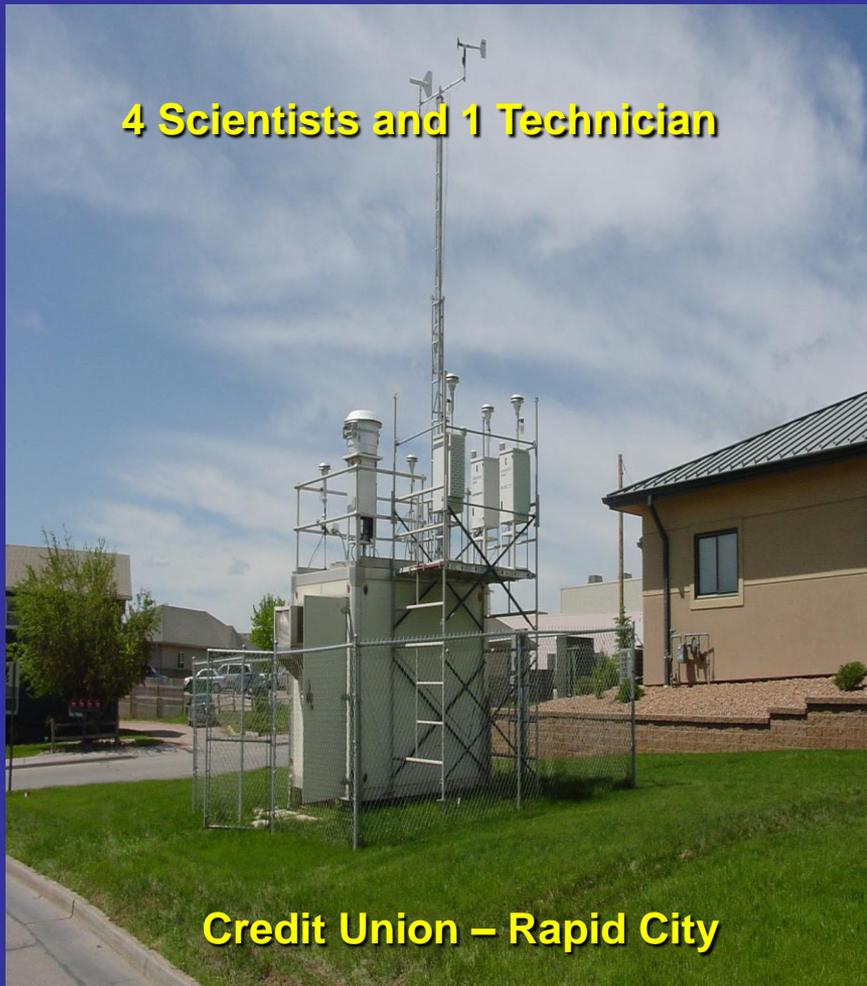
Air Quality Program



Broin Enterprises - Scotland

Monitoring Section

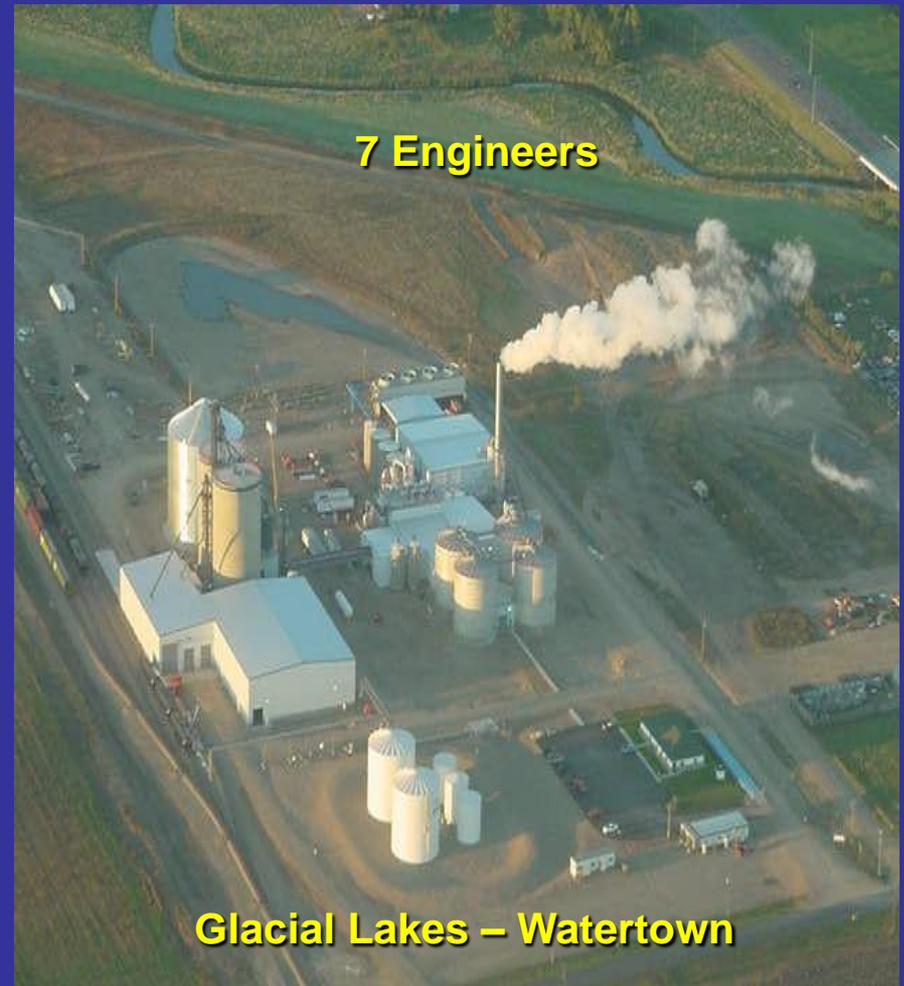
4 Scientists and 1 Technician



Credit Union – Rapid City

Permitting Section

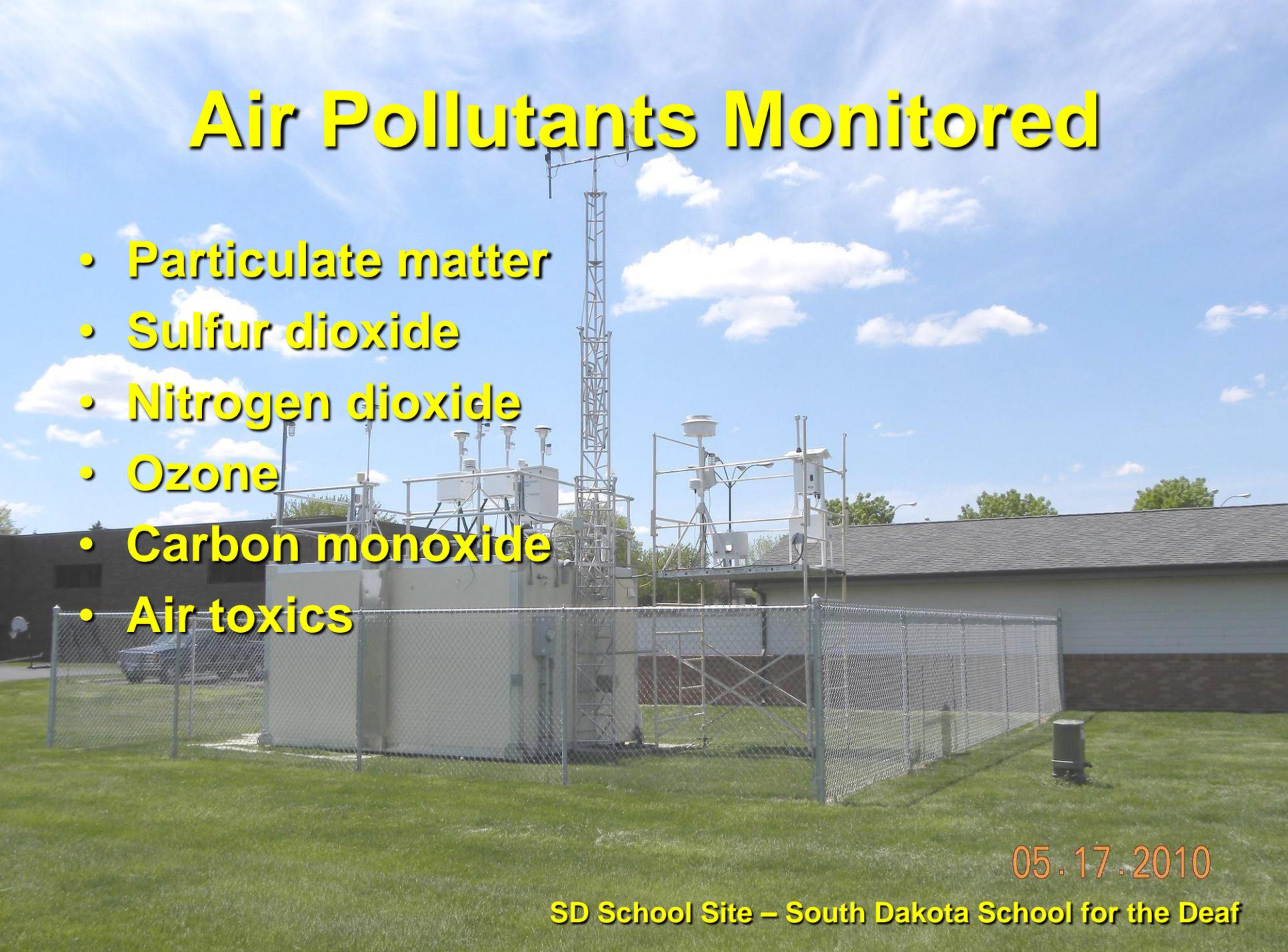
7 Engineers



Glacial Lakes – Watertown

Air Pollutants Monitored

- Particulate matter
- Sulfur dioxide
- Nitrogen dioxide
- Ozone
- Carbon monoxide
- Air toxics



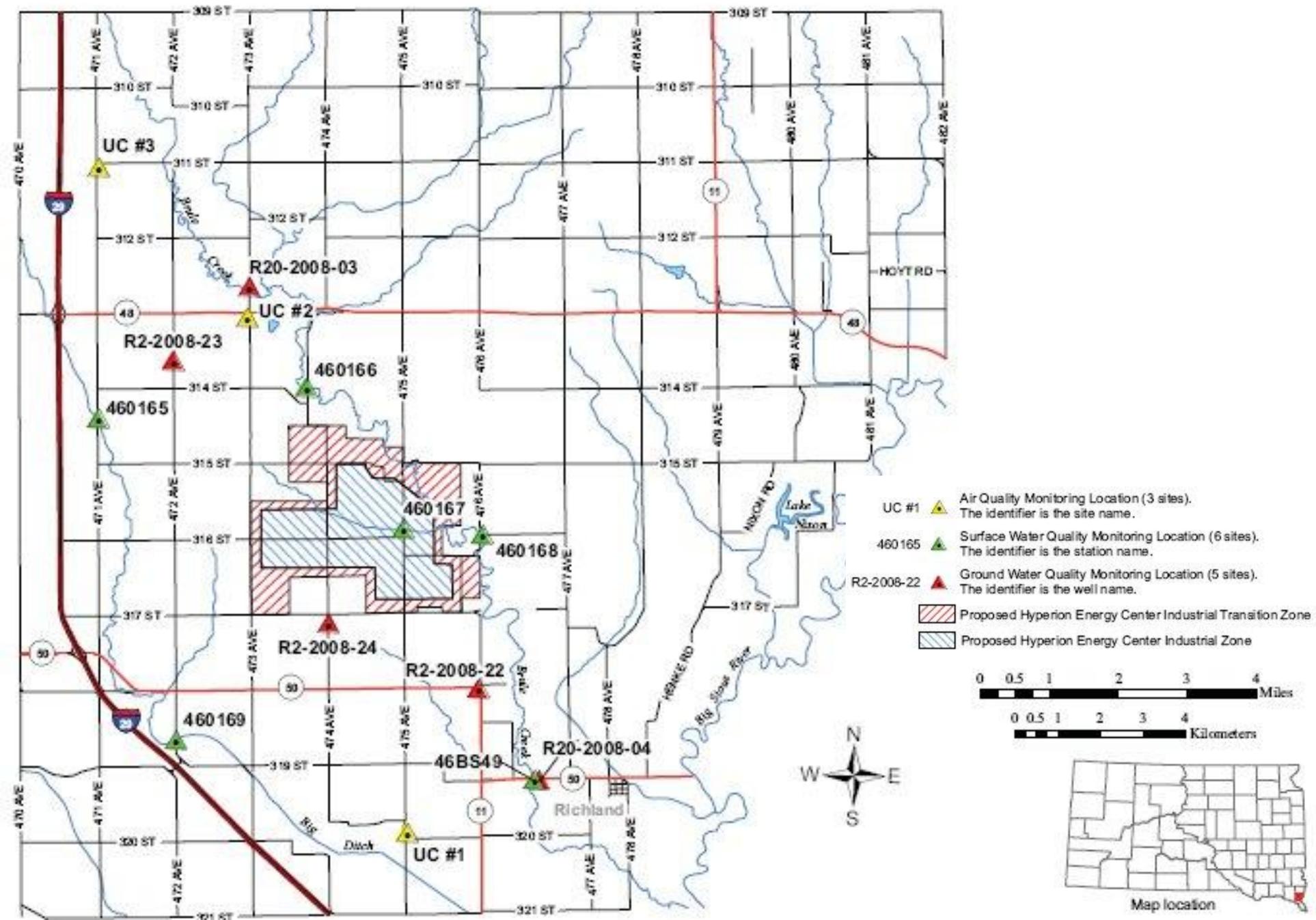
05.17.2010

SD School Site – South Dakota School for the Deaf

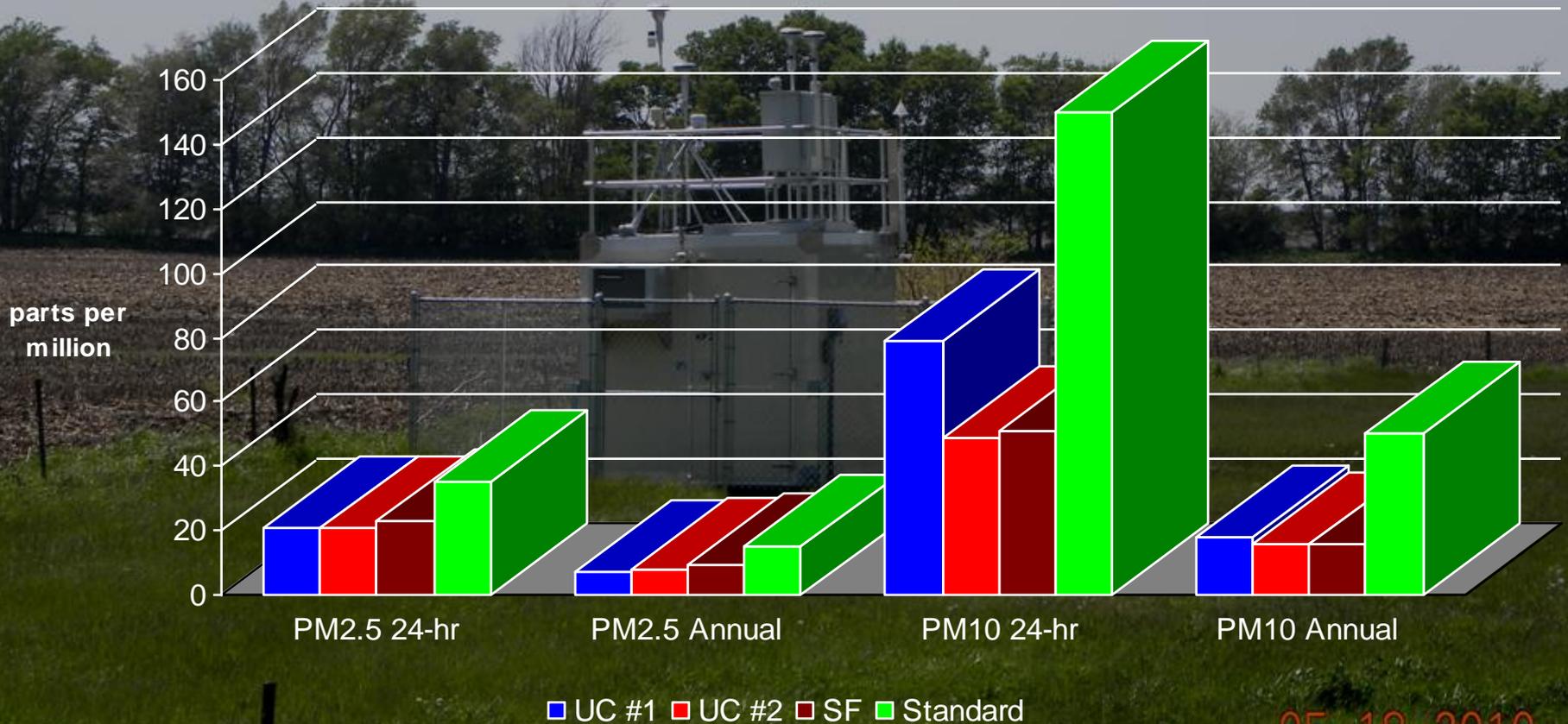
Monitoring Sites



Monitoring Locations for the Proposed Hyperion Energy Center



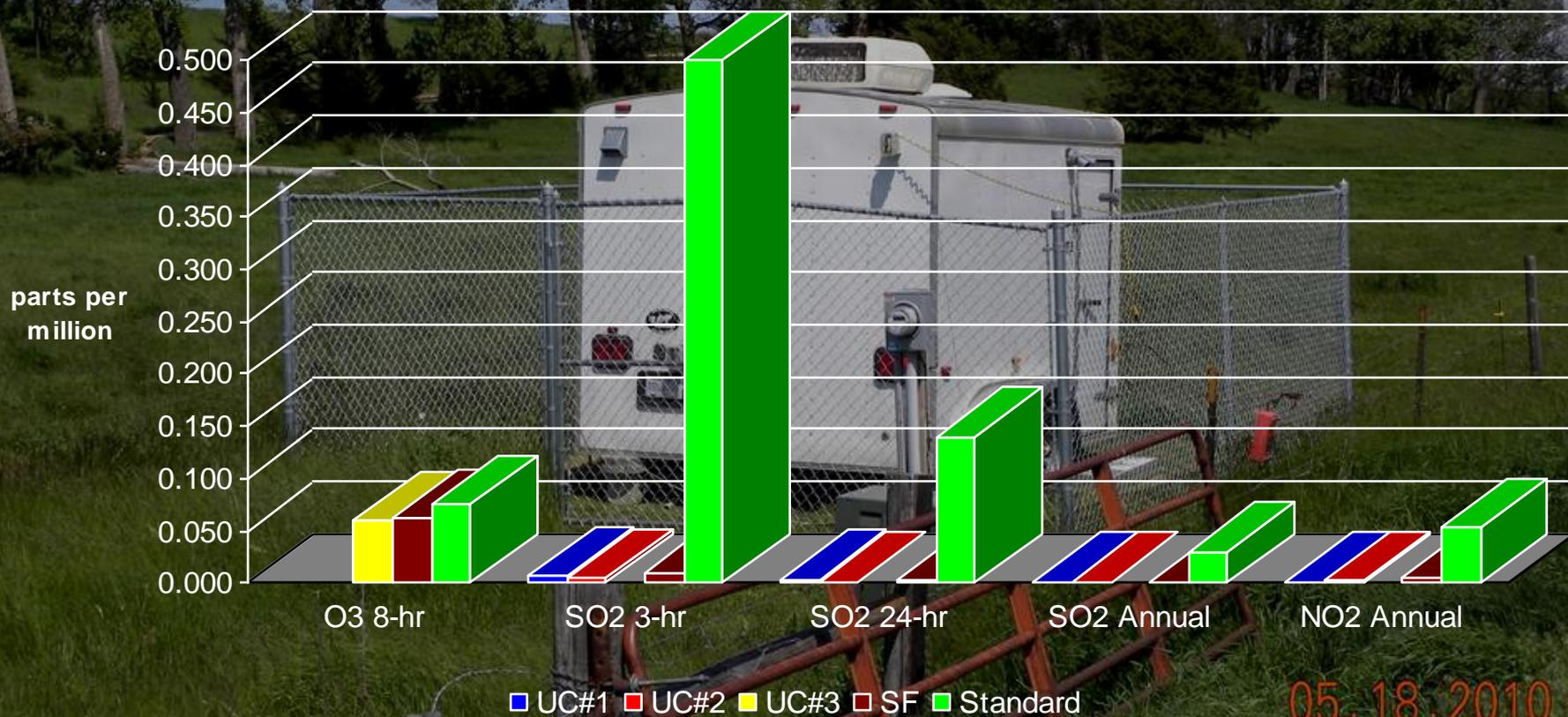
Hyperion Monitoring Data 2009



05.18.2010

Union County #2

Hyperion Monitoring Data 2009



05.18.2010

Union County #3

Badland National Park



Wind Cave National Park



Working with Industry Research Farm – Brookings County

- **Cooperation with the 3M Company and Valero Renewable Fuels Company**
- **Determine ozone levels in Brookings area**

Investigating Citizen Concerns – 2004

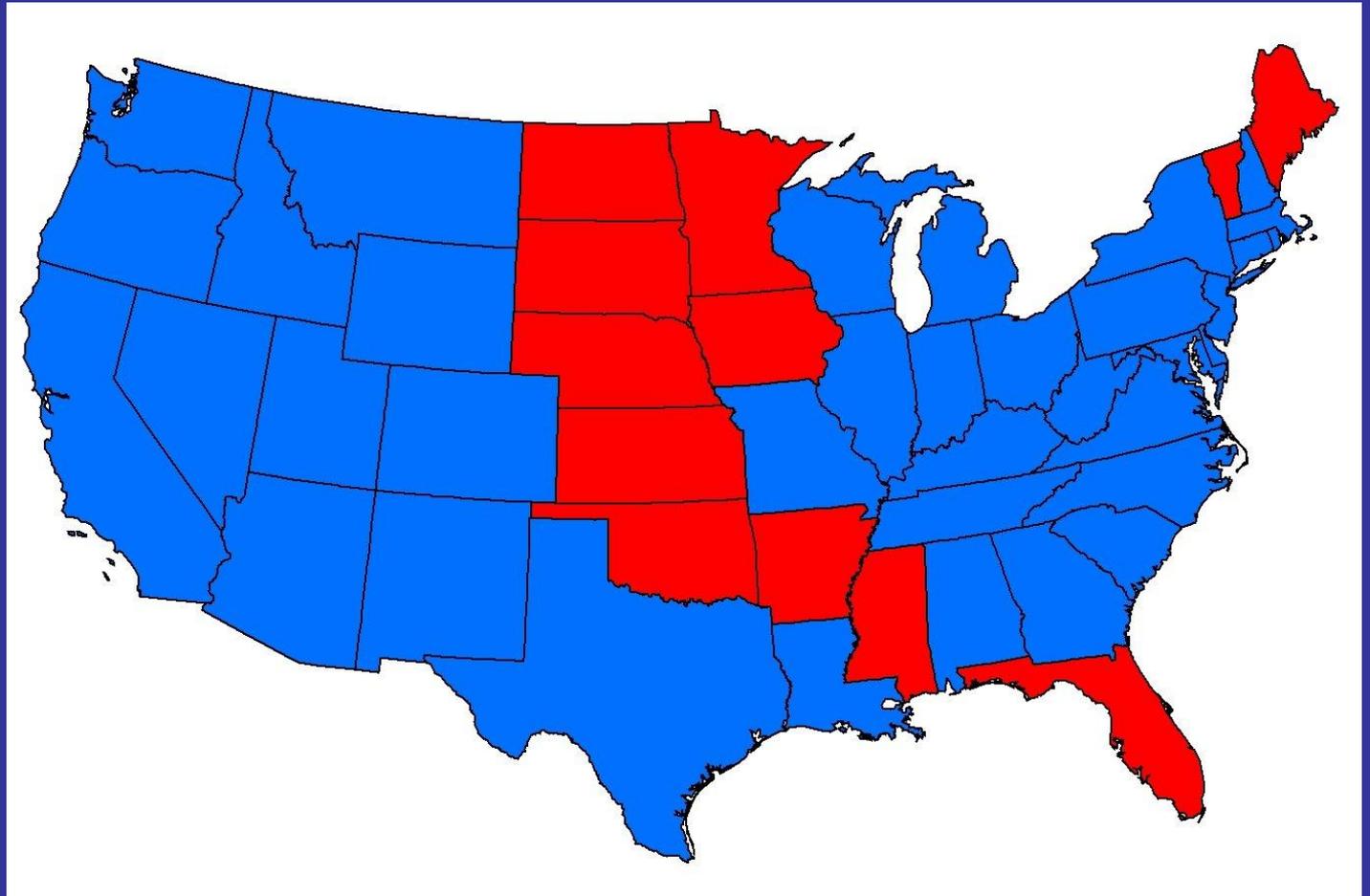
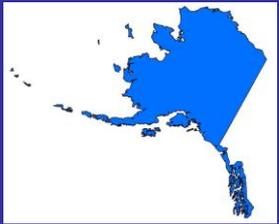
Flying J Truck Stop – Sioux Falls



Investigating Citizen Concerns – 2006-07 Ludlow, South Dakota



South Dakota – 1 of 13 States With 100% Clean Air



 States with Clean Air

 States not Meeting Standards

Air Quality Permitting

- *Issue permits to control and regulate air pollutants (703)*
- *Assist small businesses subject to federal regulations (396)*
- *Inspect businesses to ensure compliance (140)*
- *Most recent activity – energy projects*



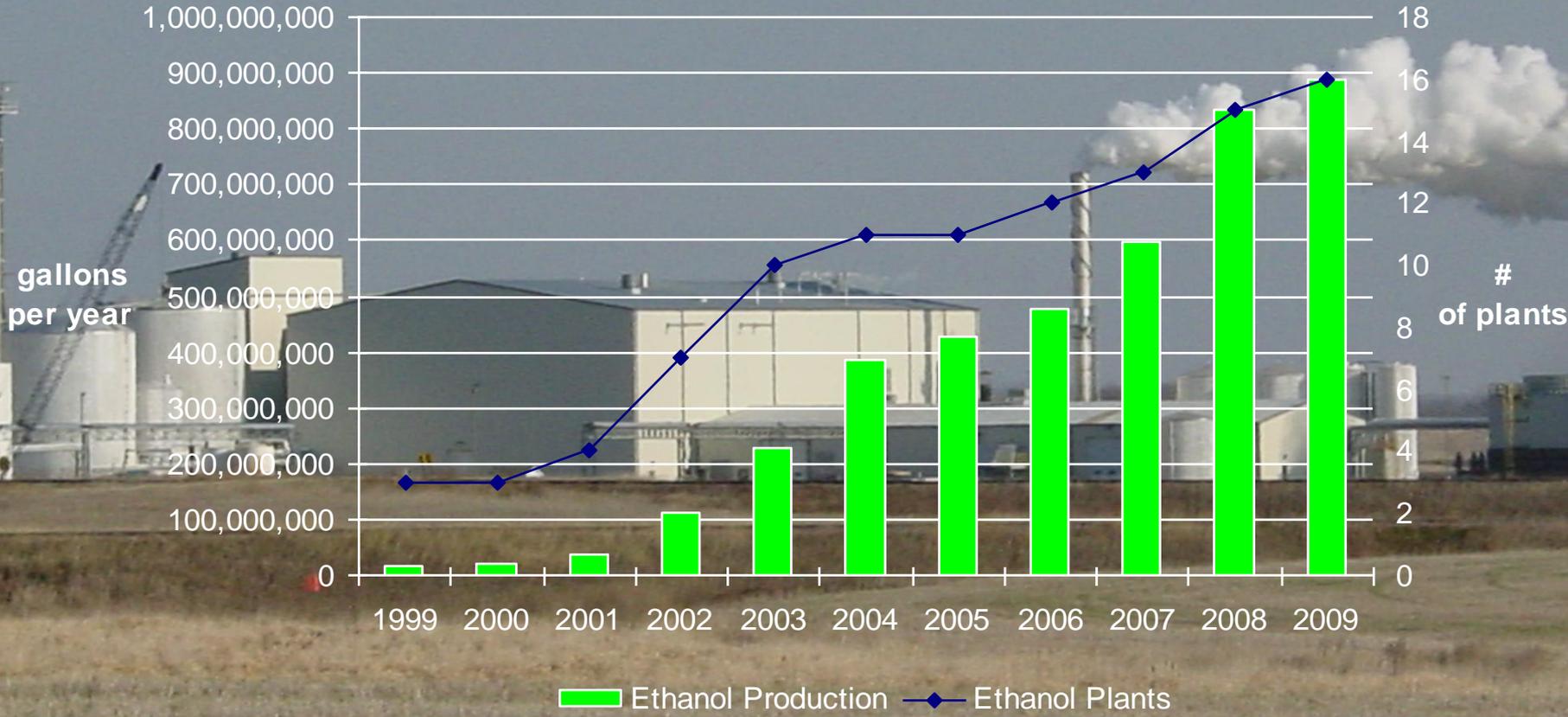
Big Stone II and NextGen

PSD Permit

Hyperion Energy Center

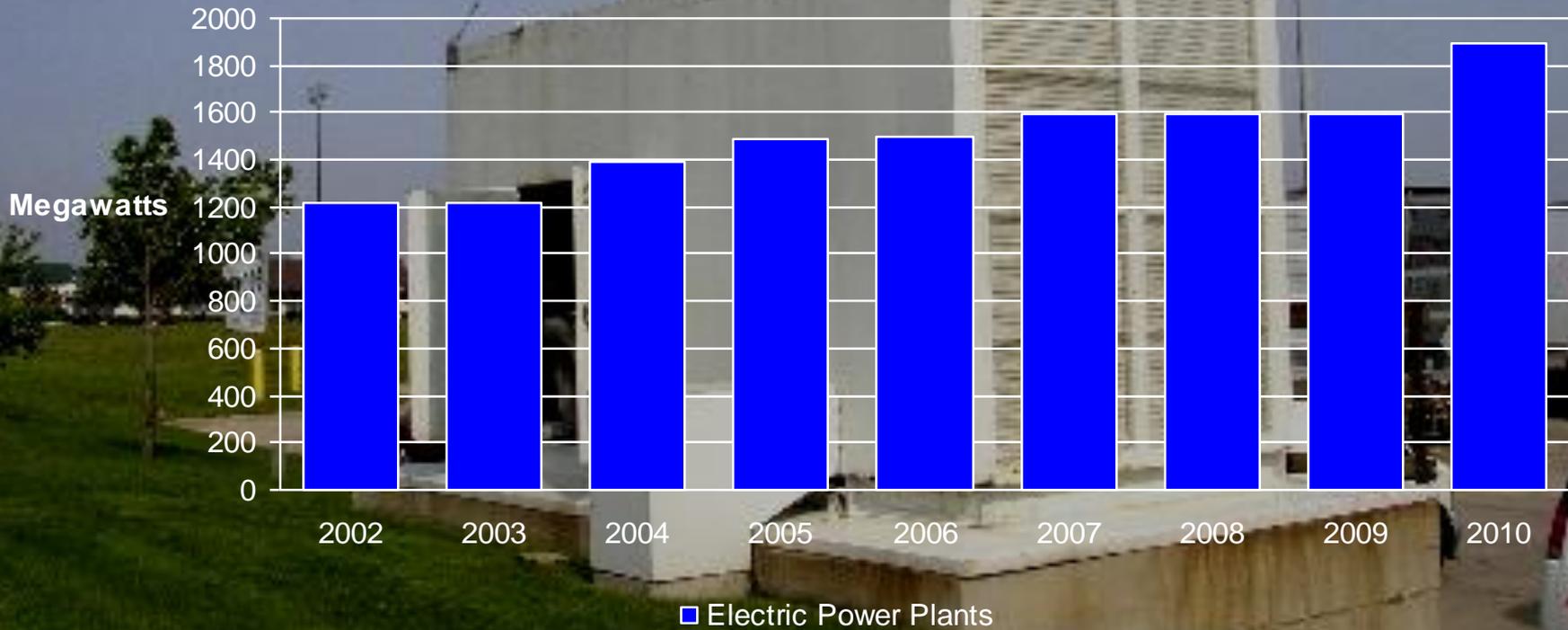
- August 20, 2009 – BME unanimously approved and issued PSD permit
- September 2009 – Sierra Group and Hyperion filed appeals
- June 23, 2010 – Judge Mark Barnett issues order requiring BME to hear additional evidence
- June 23, 2010 – Receive extension request from Hyperion to extend construction deadline to August 20, 2012

South Dakota's Ethanol Production



Northern Lights Ethanol – Big Stone

South Dakota's Electrical Production



Smoke School

- Twice per year
- On average certify approximately 143 Individuals per smoke school

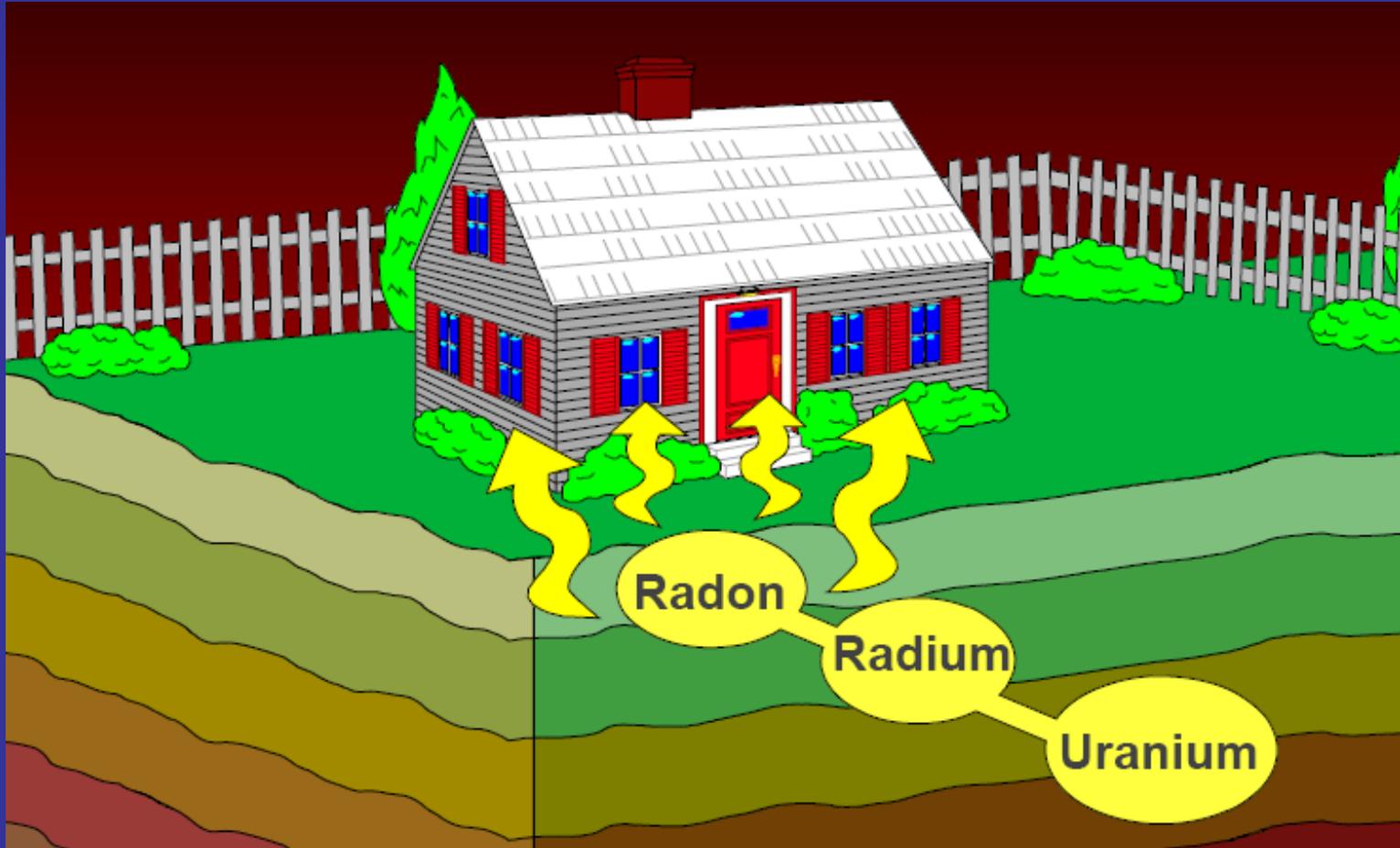


Stimulus and Diesel Emission Reduction Act



- Helped 42 school districts purchase new school buses and install retrofits on 108 old buses

Radon



- Average approx 250 requests from the public for information on the dangers of radon and how to mitigate exposure

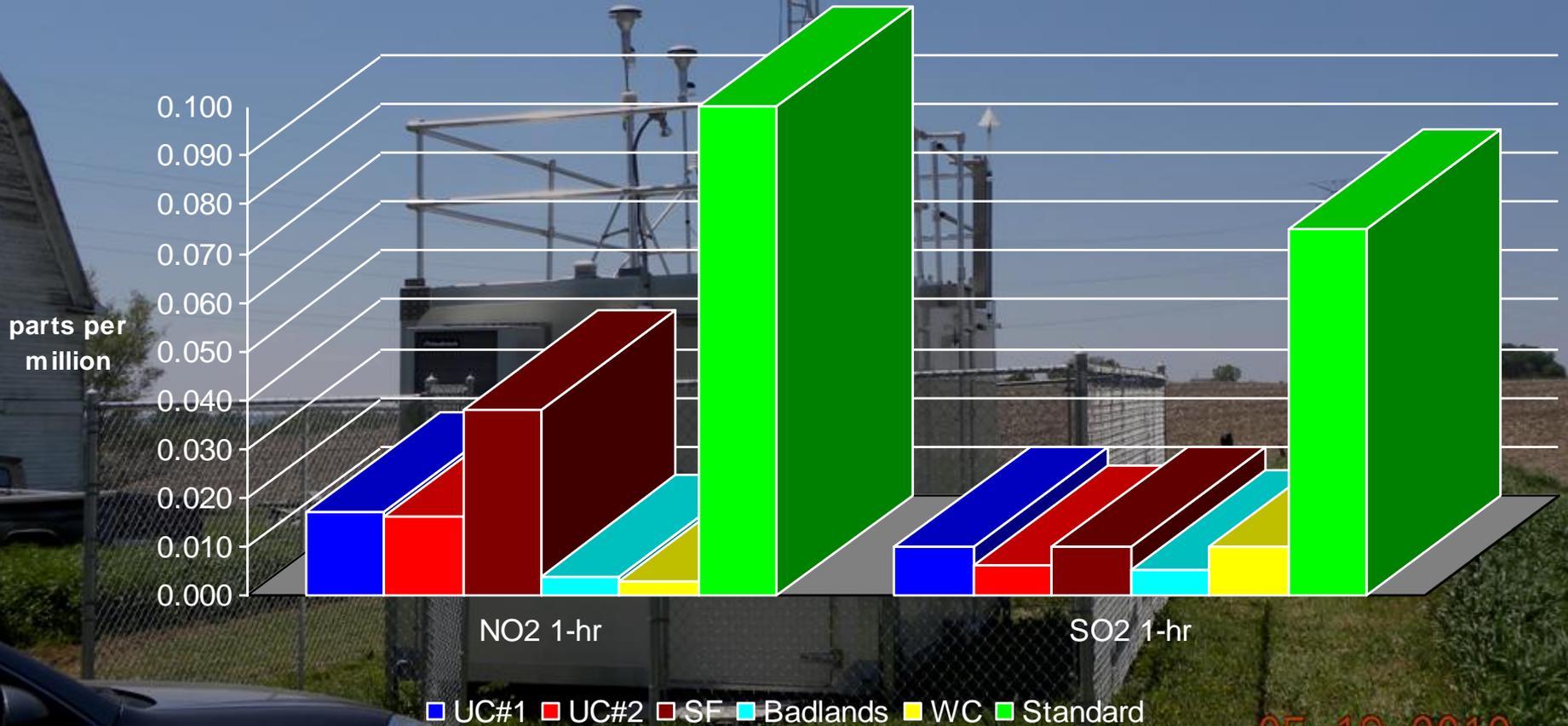
Air Quality Program Challenges

- Demonstrating Compliance with New National Ambient Air Quality Standards
- Helping small businesses with new federal standards
- Regional Haze Program

Badlands Monitoring Site



Comparison to New Federal Standards 2009



05.18.2010

Union County #1

Federal Regulations Impact Small Business

- SFY 2007 – 55 small businesses impacted by federal requirements
- Currently – 396 small businesses impacted by federal requirements
- Continue to grow as EPA finalized new federal requirements
- Plan to visit small businesses to ensure they are aware of requirements and assist them in complying

Regional Haze Program



- **Protecting visibility at Wind Cave and Badlands National Parks**

Questions???



Library Site – Rapid City