

FHR Environmental Performance

September 13, 2010

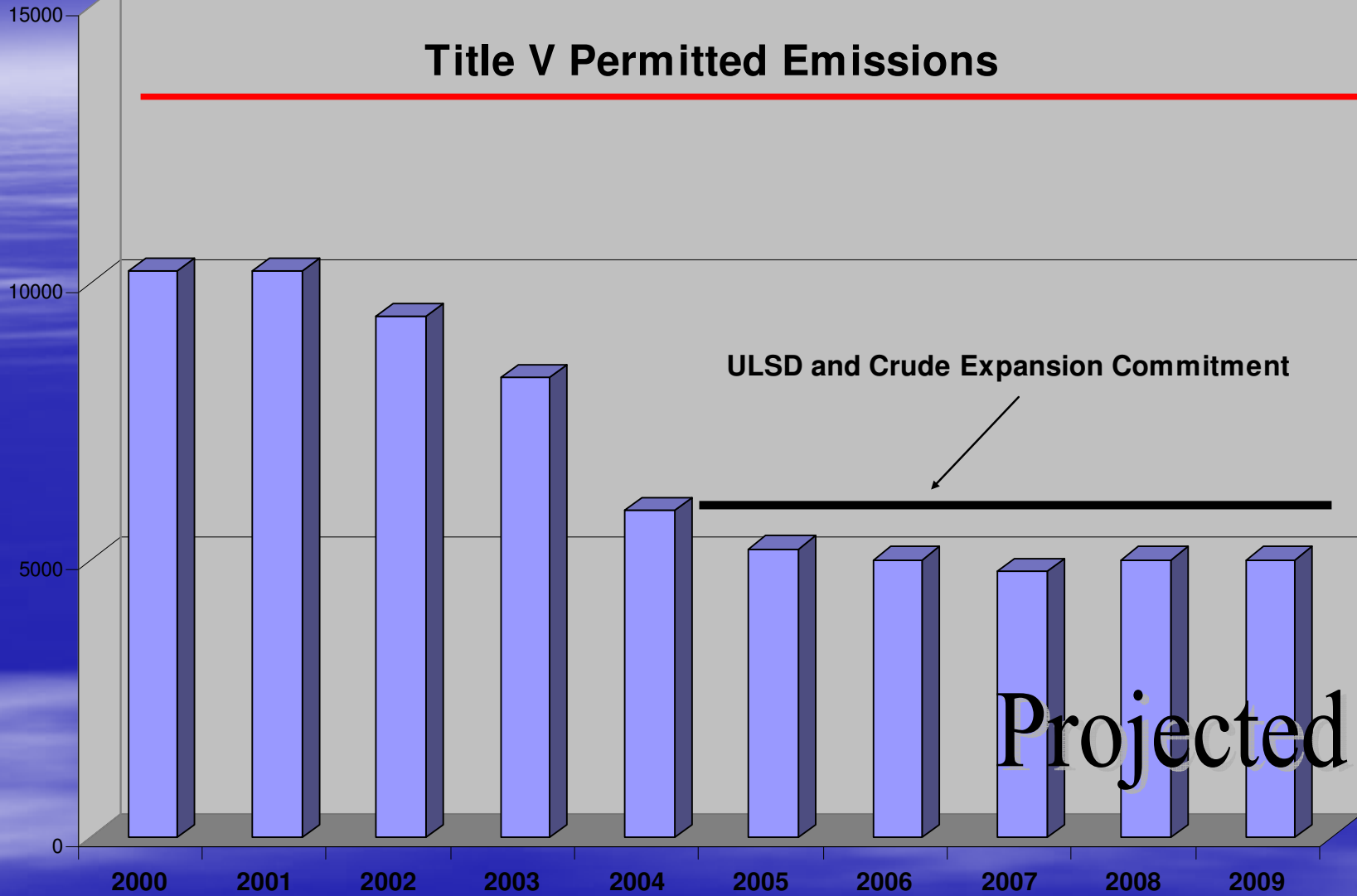
Key Environmental Air Measures

- Emission Reporting and FHR Review Process
- Emission Inventory (Criteria Pollutants)
- SARA 313 (Hazardous Air Pollutants)

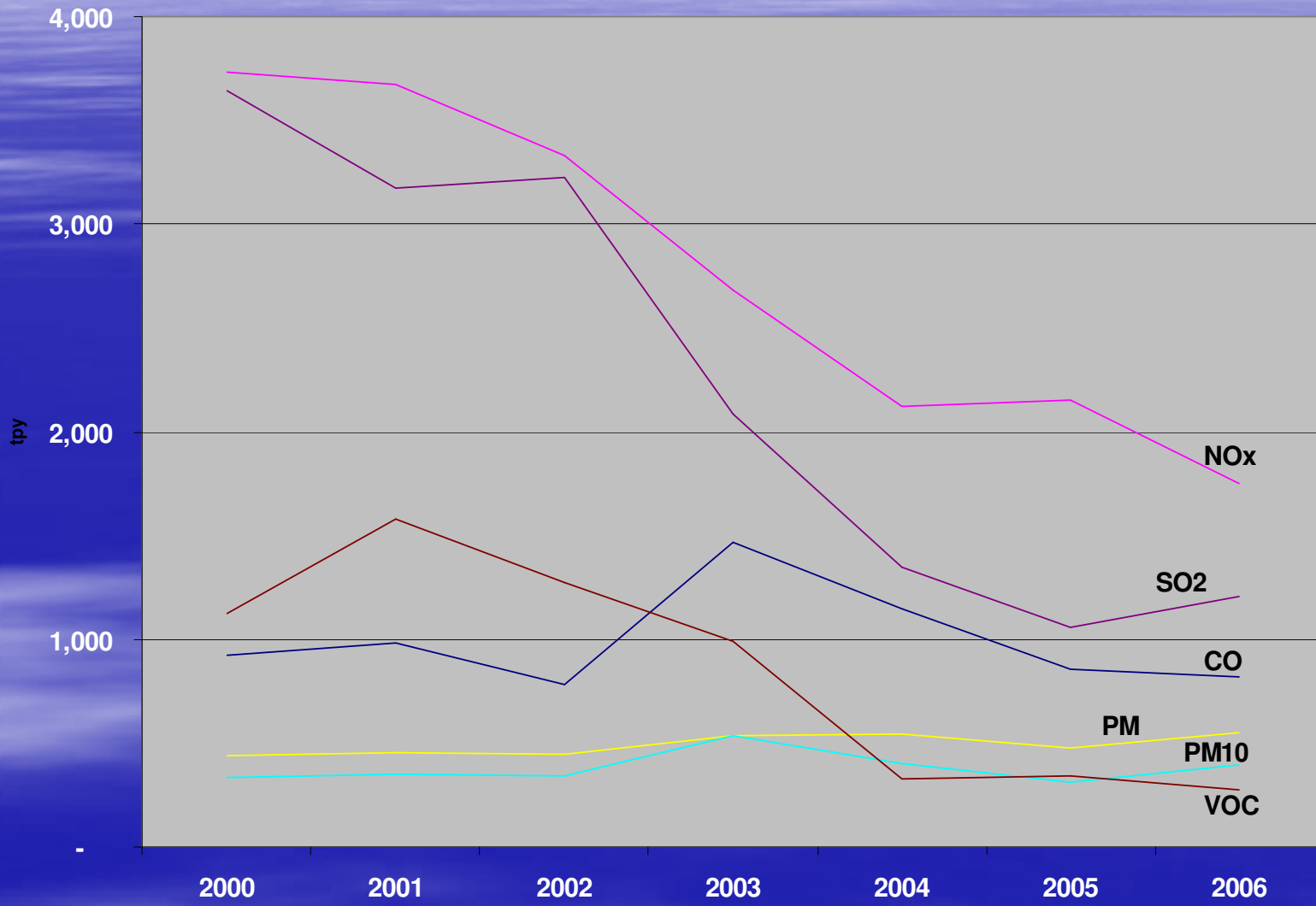
Reporting and FHR Review Process

- Primary Emission Reports
 - Emission Inventory (EI)
 - SARA 313 (Toxic Release Inventory or TRI submittal)
- FHR Process
 - Environmental team review for both submittals
 - Explain significant changes from previous years
 - Explain any changes from either operations or permit perspective
 - Explain basis for new chemical additions to 313

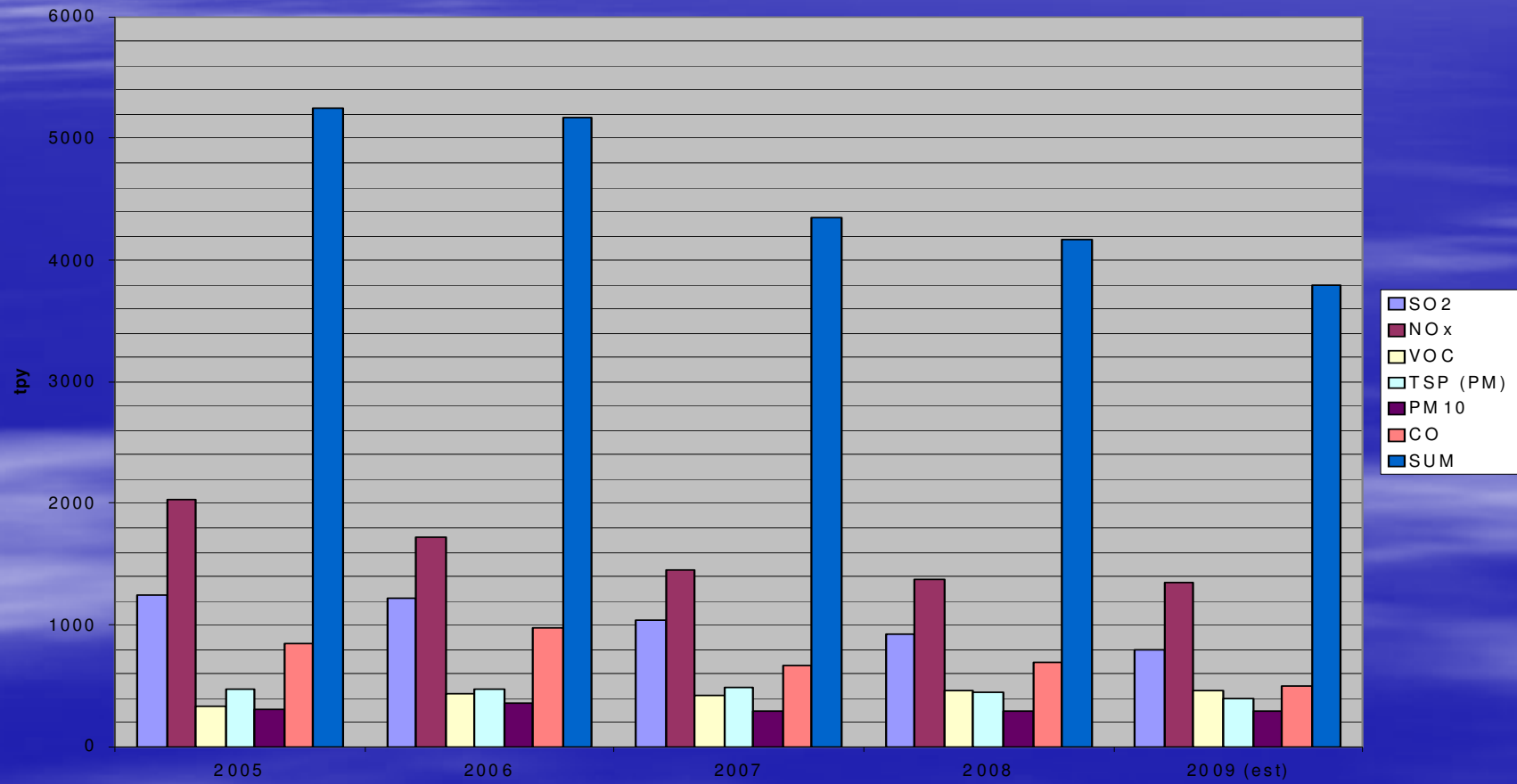
Title V Permitted Emissions



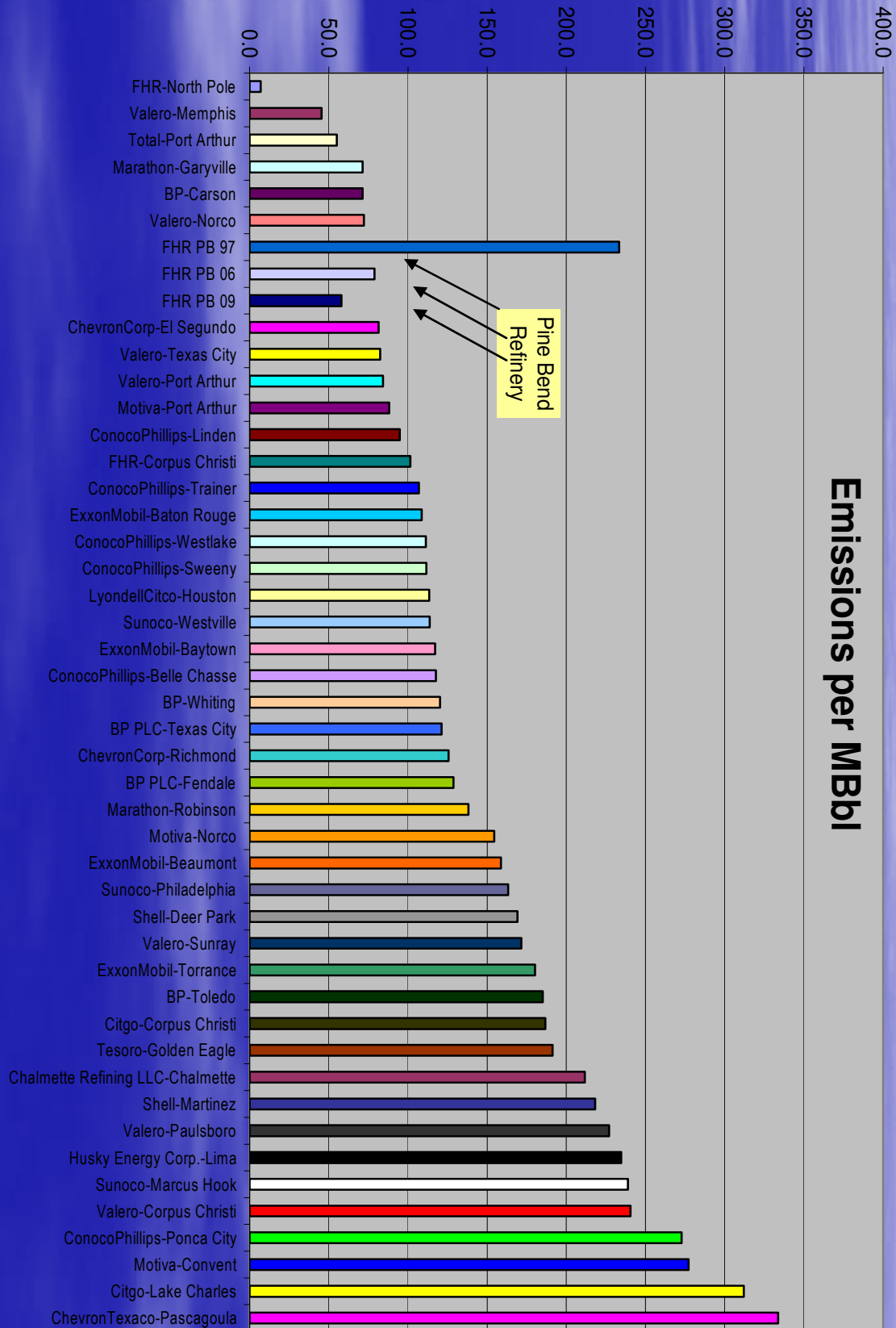
FHR Air Emissions Trend



Total Air Emissions



Air Emissions lb/MBbl



Emissions per MBbl

SARA 313

- H₂S (asphalt additive removed >100 tpy; will be included in 313 next year)
- SARA 313/Toxics Release Inventory
 - 5th for emissions in Minnesota for facilities reporting;
 - 18th for refineries (~10th largest refinery in US)
 - Data based on factors partially driven by EI
 - Data needs interpretation (landfill vs. air vs. water)

FHR Top 5 SARA 313 Pollutants in 2009

– Nitrates	603,000 lb
– Methanol	117,000 lb
– Ammonia	79,000 lb
– SO ₃ (SAM)	65,000 lb
– Xylenes	51,000 lb

Questions?