

# Environmental Risk Assessment & Impact

Jerry Engelhardt  
Debbie Ristig

# Manage Air Emissions

- Greenhouse Gases
  - Gap
    - Protocol – Inventory and Quantification
    - Measurement
  - Potential R&D
    - Emission factor updates and reconciliation
    - Direct and Indirect emission quantification
    - Fugitive emission quantification
    - Protocol Standard
    - Best Management Operational Practices
    - Measurement Technology
  - Barriers
    - Cross cutting issue that requires coordination

# Manage Air Emissions

- Criteria Pollutants & Particulates
  - Gap
    - Continuing change of end game
    - Long term sustainable compliant operation of existing facilities
  - Potential R&D
    - Combustion research (IC engines, turbines)
    - Parametric monitoring for the purpose of predicting emissions and compliance
    - Air emission control device evaluations
    - Stack testing methods
    - Measurement and Protocol
    - Gas Quality
  - Barriers
    - Understanding of technology and what regulatory implications it brings (permit classification)
    - Long-term Funding

# Permitting & Construction

- Permit Timing & Planning
  - Gap
    - Streamlined Permitting – on-going DOT efforts
  - Potential R&D
    - Establish Size Of Working Area (Footprint)
      - Define Project Procedures
      - BMP's for Known T & E Species
    - Cumulative Effects for construction
    - Best Management Practices
    - Mitigation in agricultural areas
    - Biological Windows
    - GIS Standard
  - Barriers
    - Regulatory and Jurisdictional Barriers

# Waste & Remediation

- Waste generation volumes
  - Potential R&D
    - Alternate media
  - Barriers
    - Regulations on collection
- Remediation
  - Gap – Issues adequately addressed at this time by others

# Integrated System Approach

- Information Sharing/Communication
  - Gap
    - Each issue tends to operate in isolation
  - Potential R&D
    - Standards that offer an integrated solution
    - Best Practices (knowledge)
    - Public Assurance
    - Aggressively articulate Industry Role and Benefits as it relates to quality of life
    - Avoidance rather than mitigation