Assessing Impacts to Cultural Resources

- Historical
- Archaeological
- Architectural

- Identify Source of Potential Impacts
  - Changes in Land Use (Inundation, Destruction, Damage)
  - Indirect Impacts (Treasure Hunting, Vandalism)
  - Changes in Access

- Determine Study Area
  - Generally the area of direct impact or adjacent properties

- Determine Existing Conditions
  - SHPO (State/County/Municipality Data)
  - Local Museums/Historical and Archaeological Societies
  - Native American Tribes
  - Colleges/Universities
  - Field Reconnaissance/Surveys

Cultural Resources (cont.)

- Identify Standard
  - Eligible for National Register

- Impact Prediction
  - Direct Damage/Destruction/Vibration
  - Change Character of Setting

- Assess Significance of Impacts
  - No Effect
  - No Adverse Effect
  - Adverse Effect

- Mitigation
  - Limit Magnitude of Project
  - Redesign Project
  - Repair
  - Documentation of Structures
  - Relocation of Properties
  - Salvage of Archaeological Materials
Recovery as Mitigation

Assessing Impacts to Visual Resources

- Aesthetic
- Visual
- Identify Source of Potential Impacts
  - Changes in Land Use (Inundation, Destruction, Damage)
  - New Physical Facilities
    - Obstruct views
    - Out of character in built environment
    - Visual intrusions
    - Lighting
    - Removal of buffers
    - Isolate historic resource
- Determine Study Area
  - View shed to and/or from project
- Determine Existing Conditions
  - Define Study Area
  - Field Reconnaissance
  - Public Participation

Visual Resources (cont.)

- Identify Standard
  - Federal/State/Local Statutes
  - Zoning Policies
- Impact Prediction
  - Descriptive Approach (photomontage)
  - Use Scale Models
  - Photographic/Computer Simulations
  - Scoring Methods
- Assess Significance of Impacts
  - Violate Statute/Policies
  - Scoring Methods
- Mitigation
- Modify Project (location, height)
  - Screening
  - Selection of Color/Materials
  - Underground Utilities
Assessing Impacts to Hazardous Materials

- Waste Sites
- Spill Sites
- Storage Sites
- Identify Source of Potential Impacts
  - Changes in Land Use
  - Crossing or Construction Near Sites
- Determine Study Area
  - Generally the area of direct impact
- Determine Existing Conditions
  - Federal Agencies (EPA)
  - State Agencies (DEQ)
  - County/Municipal Data (Fire/Police Dept.)
  - Historic Land Use Maps (Sanborn Fire Insurance Maps)
  - Historic Aerial Photographs
  - Field Reconnaissance/Testing
Hazardous Materials (cont.)

- Identify Standard
  - Discharge Multi-Media Environmental Goals (DMEGs)
  - Ambient Multi-Media Environmental Goals (AMEGs)
  - State Clean-Up Standards

- Impact Prediction
  - Direct Effects
    - Construction Phase
    - Operation Phase
  - Assess Significance of Impacts
    - Any Disturbance of Site
    - Exceed DMEGs/AMEGs

- Mitigation
  - Avoid Sites
  - Minimize Impacts to Sites
  - Clean Up Site
  - Containment