

Socioeconomics (cont.)

Socioeconomic Factors

- ◆ Infrastructure
- ◆ Land Use
 - Zoning
 - Land Use Value
 - Farmlands
 - Community Plans
 - Fiscal Issues (public cost vs. revenues)
- ◆ Neighborhood Cohesiveness
- ◆ Relocations

Assessing Impacts to Infrastructure

- ◆ **Water Supply**
- ◆ **Waste Water Treatment**
- ◆ **Solid Waste Disposal**
- ◆ **Utilities**

- ◆ **Identify Source of Potential Impacts**
 - Changes in Demographics
 - Crossing or Construction Near Utilities
- ◆ **Determine Study Area**
 - Usually area of direct effected by project
- ◆ **Determine Existing Conditions**
 - Water Supplier Data
 - Waste Water Treatment Provider
 - Solid Waste Disposal Provider
 - Utilities
 - County/Municipal Data

Infrastructure (cont.)

- ◆ **Identify Standard**
 - Ability to Satisfy Demand
- ◆ **Impact Prediction**
 - Using National/State/Regional Averages
 - Employment Related
 - ◆ Construction Phase
 - ◆ Operation Phase
 - Attraction Related
- ◆ **Assess Significance of Impacts**
 - Ability to Satisfy Demand
- ◆ **Mitigation**
 - Short-Term Facilities
 - Long-Term Facilities
 - Move Utilities

Model Factors for Utilities

Factor	Use	Standard
Water Consumption	Residential	85 gallons/day/person
	Office Space	93 gallons/day/1000 ft ²
	Retail Space	106 gallons/day/1000 ft ²
	Industrial	150 gallons/day/person
Solid Waste Production	Residential	0.00175 tons/day
	Office Space	0.001 tons/day
	Retail Space	0.001 tons/day
	Industrial	0.00138 tons/day
Sewage Production	Residential	65 gallons/day/person
	Office Space	80 gallons/day/1000 ft ²
	Retail Space	91 gallons/day/1000 ft ²
	Industrial	129 gallons/day/person

Assessing Impacts to Land Use

- ◆ Zoning
- ◆ Land Use Value
- ◆ Farmlands
- ◆ Community Plans
- ◆ Fiscal Issues (public cost vs. revenues)

- ◆ Identify Source of Potential Impacts
 - Changes in Demographics
 - Changes in Access
 - Direct Changes Land Use Due to Project
 - Project Related Demands
 - NIMBY
- ◆ Determine Study Area
 - Area of direct impact
 - County
- ◆ Determine Existing Conditions
 - County/Municipality Data

Land Use (cont.)

- ◆ **Identify Standard**
 - None
- ◆ **Impact Prediction**
 - Zoning/Farmlands/Community Plans
 - Direct Change in Land Use
 - Indirect/Attraction Related
 - Land Use Value
 - Compare to an Existing Facility
 - Fiscal
 - Calculation of Public Costs
 - Calculation of Public Revenues
- ◆ **Assess Significance of Impacts**
 - Inbalance in Zoning
 - Percent Change in Value
 - Percent Farmland
 - Conflicts with community plans
 - Budget Deficit
- ◆ **Mitigation**
 - Move Project
 - Re-zoning
 - Buy Out
 - Change Taxes

Farmland Assessment

- ◆ Farmland includes:
 - Prime – best combination of physical/chemical characteristics for producing of agricultural crops without intolerable soil erosion
 - Unique – Other than prime, used for production of high-value food/fiber crops
 - Statewide or Local Importance - Other than prime or unique, used for production of food/fiber/forage/oil-seed crops determined by state or local agencies
 - Does not include urban areas
- ◆ Consultation with NRCS
- ◆ Form AD 1006 (Farmland Conversion Impact Rating) should be processed

Assessing Impacts to Neighborhoods

- ◆ **Neighborhood Cohesiveness**
- ◆ **Places of Worship/Community**

- ◆ **Identify Source of Potential Impacts**
 - Changes in Demographics
 - Changes in Access
 - Direct Taking of Places of Community Cohesion
- ◆ **Determine Study Area**
 - Area of direct impact
- ◆ **Determine Existing Conditions**
 - County/Municipality Data
 - Survey of Places of Worship/Community
- ◆ **Identify Standard**
 - None

Neighborhoods (cont.)

- ◆ **Impact Prediction**
 - Employment Related
 - ◆ Construction Phase
 - ◆ Operation Phase
 - Indirect/Attraction Related
 - Analysis of Access Routes
 - Displacement of Places of Community Cohesion
- ◆ **Assess Significance of Impacts**
 - Professional Judgment
- ◆ **Mitigation**
 - Additional Access
 - Move Project
 - Buy Out of Places of Worship

Highway Impacts to Communities



Mitigation for Community Cohesion



Assessing Impacts of Relocations

- ◆ **Residences**
- ◆ **Businesses**

- ◆ **Identify Source of Potential Impacts**
 - Changes in Access
 - Direct Taking of Residences
 - Direct Taking of Businesses
- ◆ **Determine Study Area**
 - Area of direct impact
- ◆ **Determine Existing Conditions**
 - County/Municipality Data
 - Survey
- ◆ **Identify Standard**
 - None

Relocation (cont.)

◆ **Impact Prediction**

- Analysis of Access Routes
- Displacement of Residences
- Displacement of Businesses

◆ **Assess Significance of Impacts**

- Professional Judgment

◆ **Mitigation**

- Additional Access
- Move Project
- Relocate Residences
- Relocate Businesses