

US 51
CR 900 N (South of Pana) to CR 2150 N (East of Irvington)
Alternatives Analysis Procedure

Step 1: Purpose & Need Evaluation

Does the alternative meet the purpose and need of the project?

Step 2: Fatal Flaw Review

If the alternative impacts any of the following, it has a fatal flaw:

- Nature Preserves
- INAI Sites
- State parks
- Threatened and Endangered species
- National Register of Historic Sites/Eligible Sites



Step 3: Macro Analysis of Recommended Corridors

Area	Factor	Impact Measurement
Water Resources	Floodplain Class A Streams Class B Streams Class 1 streams Stream Crossings	Acres affected Number of crossings Number of crossings Number of crossings Number of crossings
Wetlands	Wetlands	Acres affected Number affected
Community	Homes Business Public facilities Loss of Developed (zoned) area Compatibility with Land Use Plans Parks Utility Relocations (including Tank Farms) Divides or isolates a community	Number displaced Number displaced Number displaced Acres taken Yes or No Number affected/Acres affected Number Impacted Yes or No
Environmental Justice	Low Income Minority Populations	Percent of total displacements Percent of total displacements
Cultural	Archaeological sites Historic sites Cemeteries	Number affected Number affected Number affected
Agriculture	Prime farmland Farmsteads Farms severed Centennial/Sesquicentennial Farms	Acres affected Number affected Number affected Number affected
Special Waste	CERCLIS sites Special waste sites	Number affected Number affected
Operations	Distance of Travel Points of Access Distance from existing US 51 Alignment	Lengths of relocated alignment Number Length and travel time comparison



Step 4: Comparative Analysis of Alignments

Area	Factor	Impact Measurement
Water Resources	Floodplain Class A Streams Class B Streams Class 1 streams Stream Crossings	Acres affected Number of crossings Number of crossings Number of crossings Number of crossings
Wetlands	Wetlands	Acres affected Number affected
Community	Homes Business Public facilities Loss of Developed (zoned) area Compatibility with Land Use Plans Parks Utility Relocations (including Tank Farms) Divides or isolates a community	Number displaced Number displaced Number displaced Acres taken Yes or No Number affected/Acres affected Number Impacted Yes or No
Environmental Justice	Low Income Minority Populations	Percent of total displacements Percent of total displacements
Cultural	Archaeological sites Historic sites Cemeteries	Number affected Number affected Number affected
Agriculture	Prime farmland Farmsteads Farms severed Centennial/Sesquicentennial Farms	Acres affected Number affected Number affected Number affected
Special Waste	CERCLIS sites Special waste sites	Number affected Number affected
Noise	Sensitive Receptors	Number affected
Operations	Distance of Travel Points of Access Distance from existing US 51 Alignment	Lengths of relocated alignment Number Length and travel time comparison

