

Screening of Identified Alternates

KY 645 Regional Corridor Study

Screening Summary (Level 1 and Level 2)	Alternate				
	No-Build	2	4	5	9
Summary of Issues					
Cost and Constructability					
Traffic and Travel Savings					
Environmental Issues					
Geotechnical Issues					
Public Opinion					
Project Goals and Objectives					
Most favorable alternate in addressing the given criterion					
Least favorable alternate in addressing the given criterion					

LEVEL 2 SCREENING

	Alternate				
	No-Build	2	4	5	9

Cost Estimates					
Total Cost (millions)	0	\$413.1	\$384.3	\$363.5	\$309.5
Per Mile Cost (millions)	0	\$8.6	\$8.5	\$8.3	\$8.5
Travel Savings					
Vehicle Hours of Travel (VHT) Savings per Year (thousands)	0	276.6	142.7	38.7	318.6
Vehicle Miles of Travel (VMT) Savings per Year (millions)	0	19.7	15.3	10.7	-2.3
Cultural/Historic (occurrences within 2000' centerline)					
Historic/Archaeological Sites	0	5	4	9	2
National Register Sites	0	0	0	0	0
Environmental (occurrences within corridor boundaries)					
Water Resources					
Number of Blue-line Streams	0	16	14	18	22
Cold Water Aquatic Habitats	0	1	1	1	0
Reference Research Waters	0	2	3	4	0
Exceptional Waters	0	1	1	2	0
Trout Streams	0	3	2	1	1
Wild Rivers	0	0	0	0	0
Watersheds	0	3	3	3	3
Wellhead Protection Areas	0	1	1	1	0
Natural or Forested Areas					
Big Trees	0	0	0	0	1
Large Forest Blocks	0	yes	yes	yes	no
Daniel Boone National Forest	0	yes	no	no	no
Wetland Areas					
Lacustrine Wetlands	0	1	0	1	0
Forested Wetlands	0	4	0	0	0
Scrub-shrub Wetlands	0	7	2	2	2
Emergent Wetlands	0	7	9	6	15
Ponds	0	175	115	114	114
Floodplains					
100-year Flood Areas	0	8	7	6	11
100-year to 500-year Flood Areas	0	0	1	1	0
500-year Flood Areas	0	4	3	3	3
Sensitive Habitats					
Endangered Species within 1 mile	0	1	1	1	0
Endangered Species within 5 miles	0	1	1	1	0
Special Concern Species within 1 mile	0	1	1	1	0
Special Concern Species within 5 miles	0	1	1	1	1
Monitored Sites					
Underground Storage Tanks	0	34	81	95	57
EPA Monitored Sites	0	3	4	3	2
Soil Types					
Hydric Soils	0	yes	yes	yes	no
Potentially Hydric Soils	0	no	yes	yes	yes
Highly Erodible Soils	0	yes	yes	yes	yes
Other					
Underground Clay Mines	0	2	5	3	6
Cemeteries	0	49	39	45	21
Dams	0	2	1	1	2
Geotechnical (occurrences within corridor boundaries)					
Ranking by Sub-Consultant		2	3	1	4
Faults (miles)	0	2.2	2.2	2.2	0.6
Excavations					
Quarries	0	1	1	1	0
Coal Exploration Sites	0	12	12	12	1
Known Coal Mine Areas (acres)	0	108	108	108	220
Wells					
Dry & Abandoned	0	58	53	61	20
Gas	0	54	54	54	42
Oil	0	558	562	581	8
Secondary Recovery Input (Injection Well)	0	177	177	179	0
Stratigraphic Core Test	0	2	2	2	0
Undetermined Wells	0	198	198	207	13