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## Proposed Survey Schedule For [Kansas] Mainline Pipeline Route

2006 Surveys					
Species & Status	Approximate Survey Dates	Specific Survey Areas (by County & MP)	Survey Description	Surveyor	Comments
<b>Topeka shiner</b> <i>Notropis Topeka</i>  FE; KS-T/CH	Late-Summer/Fall	<b>Marshall:</b> 654.0,654.7, 654.8, 656.7, 657.4, 657.7, 658.4, 659.0, 659.5, 659.9, 661.8, 662.1 (North Elm Creek)	Habitat surveys will be conducted to document habitat suitability; intermittent/perennial flow; and spawning habitat.	Topeka shiner expert and ENSR biologist.	See attached survey protocol.

2007 Surveys					
Species & Status	Approximate Survey Dates	Specific Survey Areas (by County & MP)	Survey Description	Surveyor	Comments
<b>Topeka shiner</b> <i>Notropis Topeka</i>  FE; KS-T/CH	Spawning Season: 15-May to 31-July	<b>Marshall:</b> 654.0,654.7, 654.8, 656.7, 657.4, 657.7, 658.4, 659.0, 659.5, 659.9, 661.8, 662.1 (North Elm Creek)	One sampling survey to determine species presence at stream crossings, if needed.	Qualified ENSR biologist and/or contractor.	See attached survey protocol.

2008 Surveys (Pre-construction)					
Species & Status	Approximate Survey Dates	Specific Survey Areas (by County & MP)	Survey Description	Surveyor	Comments
<b>Bald eagle</b> <i>Haliaeetus leucocephalus</i>  FT; KS-T/CH	Nesting period: 1-Feb to 15-Aug.  Winter roosting period: 1-Nov. to 1-April.	<b>Doniphan:</b> 743.4-743.6 (Missouri River). <b>Marshall:</b> 653.6-653.7 (Big Blue River).	One ground survey or aerial survey prior to construction. Survey will be conducted 1-mile from the construction ROW.	Qualified ENSR biologist and/or contractor.	This survey will not be required if construction occurs outside of the breeding/winter roost seasons for this species.  See attached survey protocol.
<b>Topeka shiner</b> <i>Notropis Topeka</i>	Spawning Season: 15-May to 31-July	<b>Marshall:</b> 654.0,654.7, 654.8, 656.7, 657.4, 657.7, 658.4, 659.0, 659.5, 659.9, 661.8, 662.1 (North Elm	One sampling survey to determine species	Topeka shiner expert and ENSR biologist.	If stream section is dry, no surveys would be required. If

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FE; KS-T/CH		Creek)	presence at stream crossings, if needed.		stream is wet, consult with state and federal agencies.  Construction would not be permitted during the spawning period (May 15 to July 31) if the crossing is wet.  Obtain necessary permits from the state and federal agencies if salvage and relocation is conducted prior to construction.
Migratory Birds (including raptors)	TBD based on John Cochnar's correspondence with USFWS meeting with USFWS Special Agents and MBTA Office.	TBD	TBD	TBD	TBD