- 1 APPENDIX I
- 2 Friant-Kern Canal Middle Reach Capacity Correction Project

Transportation Assumptions





Appendix I Transportation Assumptions

- 1 This document provides vehicle assumptions that were used to estimate the expected
- 2 transporation impacts resulting from the Canal Enlargement and Realignment and Canal
- 3 Enlargement Alternatives for the Friant-Kern Canal Middle Reach Capacity Correction Project.

Canal Enlargement and Realignment (CER) Alternative - ADT

	Type of	Number of	Construction Duration						20	21											20	22					
Description	vehicle	Vehicles	(months)	J	F	M	Α	M	J	J	Α	S	0	Ν	D	J	F	M	Α	M	J	J	Α	S	0	Ν	D
Segment 4 Canal lining	Passenger car	10	7																							20	20
Segment 1 Canal lining	Passenger car	10	9																								
Excavation	Passenger car	40	16					80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80				
	Heavy Vehicle ¹	2						8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
New canal lining	Passenger car	25	9															50	50	50	50	50	50	50	50	50	
Siphons	Passenger car	36	19					72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	
	Heavy Vehicle ¹	12						48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
Check Structures	Passenger car	12	14	24	24	24	24	24	24	24						24	24	24	24	24	24	24					
	Heavy Vehicle ¹	4				16	16	16	16									16	16	16	16						
Utility relocation	Passenger car	4	4	8	8	8	8																				
	Heavy Vehicle ¹	1		4	4	4	4																				
Well abandonment	Passenger car	2	1.5	4	4																						
	Heavy Vehicle ¹	1		4	4																						
Concrete Batch Plant	Passenger car	6	41	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	Heavy Vehicle ¹	6		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Total				80	80	88	88	284	284	268	244	244	244	244	244	268	268	334	334	334	334	318	294	206	206	226	56

Canal Enlargement and Realignment (CER) Alternative - ADT

Ü	Type of	Number of	Construction Duration						20	23											20	24					
Description	vehicle	Vehicles	(months)	J	F	M	Α	M	J	J	Α	S	0	Ν	D	J	F	M	Α	M	J	J	Α	S	0	N	D
Segment 4 Canal lining	Passenger car	10	7	20	20	20	20	20																			
Segment 1 Canal lining	Passenger car	10	9									20	20	20	20	20	20	20	20	20							
Excavation	Passenger car	40	16																								
	Heavy Vehicle ¹	2																									
New canal lining	Passenger car	25	9																								
Siphons	Passenger car	36	19																								
	Heavy Vehicle ¹	12																									
Check Structures	Passenger car	12	14																								
	Heavy Vehicle ¹	4																									
Utility relocation	Passenger car	4	4																								
	Heavy Vehicle ¹	1																									
Well abandonment	Passenger car	2	1.5																								
	Heavy Vehicle ¹	1																									
Concrete Batch Plant	Passenger car	6	41	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12							
	Heavy Vehicle ¹	6		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24							
Total				56	56	56	56	56	36	36	36	56	56	56	56	56	56	56	56	56	0	0	0	0	0	0	0

	Type of	Number of	Construction Duration							021												022					
Decription	Vehicle	Vehicles	(in months)	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М	Α	M	J	J	Α	S	0	N	D
Segment 4 Canal lining	Passenger car	10	7																								
	Heavy Vehicle ¹	5																									į
Segment 1 Canal lining	Passenger car	10	9																								
	Heavy Vehicle ¹	5																									
Canal Widening/Lining	Passenger Car	20	24												40	40	40										40
Excavation	Passenger Car	20	20											40	40	40	40									40	40
	Heavy Vehicle ¹	1												4	4	4	4									4	4
Bridges/Siphons	Passenger Car	20	36									40	40	40	40									40	40	40	40
	Heavy Vehicle ¹	12										48	48	48	48									48	48	48	48
Check Structures	Passenger Car	12	14	24	24	24	24	24	24	24						24	24	24	24	24	24	24					
	Heavy Vehicle ¹	4				16	16	16	16									16	16	16	16						
Utility relocation	Passenger Car	4	4												8												8
	Heavy Vehicle ¹	1													4												4
Well abandonment	Passenger Car	2	1	4																							
	Heavy Vehicle ¹	1		4																							
Concrete Batch Plant	Passenger car	6		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	Heavy Vehicle ¹	3		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Tota	ı		_	56	48	64	64	64	64	48	24	112	112	156	208	132	132	64	64	64	64	48	24	112	112	156	208

	Type of	Number of	Construction Duration							23												24					
Decription	Vehicle	Vehicles	(in months)	J	F	M	Α	M	J	J	Α	S	0	Ν	D	J	F	M	Α	M	J	J	Α	S	0	N	D
Segment 4 Canal lining	Passenger car	10	7																								
	Heavy Vehicle ¹	5																									
Segment 1 Canal lining	Passenger car	10	9																								
	Heavy Vehicle ¹	5																									
Canal Widening/Lining	Passenger Car	20	24	40	40										40	40	40										40
Excavation	Passenger Car	20	20	40	40									40	40	40	40									40	40
	Heavy Vehicle ¹	1		4	4									4	4	4	4									4	4
Bridges/Siphons	Passenger Car	20	36									40	40	40	40									40	40	40	40
	Heavy Vehicle ¹	12										48	48	48	48									48	48	48	48
Check Structures	Passenger Car	12	14																								
	Heavy Vehicle ¹	4																									
Utility relocation	Passenger Car	4	4												8												8
	Heavy Vehicle ¹	1													4												4
Well abandonment	Passenger Car	2	1																								
	Heavy Vehicle ¹	1																									
Concrete Batch Plant	Passenger car	6		12	12										12	12	12										12
	Heavy Vehicle ¹	3		12	12										12	12	12										12
Total				108	108	0	0	0	0	0	0	88	88	132	208	108	108	0	0	0	0	0	0	88	88	132	208

	Type of	Number of	Construction Duration						20	25												26					
Decription	Vehicle	Vehicles	(in months)	J	F	M	Α	M	J	J	Α	S	0	Ν	D	J	F	M	Α	M	J	J	Α	S	0	Ν	D
Segment 4 Canal lining	Passenger car	10	7																								
	Heavy Vehicle ¹	5																									
Segment 1 Canal lining	Passenger car	10	9																								
	Heavy Vehicle ¹	5																									<u> </u>
Canal Widening/Lining	Passenger Car	20	24	40	40										40	40	40										40
Excavation	Passenger Car	20	20	40	40									40	40	40	40									40	40
	Heavy Vehicle ¹	1		4	4									4	4	4	4									4	4
Bridges/Siphons	Passenger Car	20	36									40	40	40	40									40	40	40	40
	Heavy Vehicle ¹	12										48	48	48	48									48	48	48	48
Check Structures	Passenger Car	12	14																								
	Heavy Vehicle ¹	4																									
Utility relocation	Passenger Car	4	4												8												8
	Heavy Vehicle ¹	1													4												4
Well abandonment	Passenger Car	2	1																								
	Heavy Vehicle ¹	1																									
Concrete Batch Plant	Passenger car	6		12	12										12	12	12										12
	Heavy Vehicle ¹	3		12	12										12	12	12										12
Tota	1			108	108	0	0	0	0	0	0	88	88	132	208	108	108	0	0	0	0	0	0	88	88	132	208

	Type of	Number of	Construction Duration							27												28					
Decription	Vehicle	Vehicles	(in months)	J	F	M	Α	М	J	J	Α	S	0	Ν	D	J	F	M	Α	М	J	J	Α	S	0	N	D
Segment 4 Canal lining	Passenger car	10	7																								
	Heavy Vehicle ¹	5																									
Segment 1 Canal lining	Passenger car	10	9																								
	Heavy Vehicle ¹	5																									
Canal Widening/Lining	Passenger Car	20	24	40	40										40	40	40										40
Excavation	Passenger Car	20	20	40	40									40	40	40	40									40	40
	Heavy Vehicle ¹	1		4	4									4	4	4	4									4	4
Bridges/Siphons	Passenger Car	20	36									40	40	40	40									40	40	40	40
	Heavy Vehicle ¹	12										48	48	48	48									48	48	48	48
Check Structures	Passenger Car	12	14																								
	Heavy Vehicle ¹	4																									
Utility relocation	Passenger Car	4	4												8												8
	Heavy Vehicle ¹	1													4												4
Well abandonment	Passenger Car	2	1																								
	Heavy Vehicle ¹	1																									
Concrete Batch Plant	Passenger car	6		12	12										12	12	12										12
	Heavy Vehicle ¹	3		12	12										12	12	12										12
Total	I			108	108	0	0	0	0	0	0	88	88	132	208	108	108	0	0	0	0	0	0	88	88	132	208

	Type of	Number of	Construction Duration						2	029											203	0					
Decription	Vehicle	Vehicles	(in months)	J	F	M	Α	M	J	J	Α	S	0	Ν	D	J	F	М	Α	M	J	J	Α	S	0	N	D
Segment 4 Canal lining	Passenger car	10	7					20	20	20	20	20	20	20													
	Heavy Vehicle ¹	5						20	20	20	20	20	20	20												Ш	
Segment 1 Canal lining	Passenger car	10	9												20	20	20	20	20	20	20	20	20				
	Heavy Vehicle ¹	5													20	20	20	20	20	20	20	20	20				
Canal Widening/Lining	Passenger Car	20	24	40	40																						
Excavation	Passenger Car	20	20	40	40																						
	Heavy Vehicle ¹	1		4	4																						
Bridges/Siphons	Passenger Car	20	36				40	40	40	40	40	40	40	40	40	40	40	40	40								
	Heavy Vehicle ¹	12					48	48	48	48	48	48	48	48	48	48	48	48	48								
Check Structures	Passenger Car	12	14																								
	Heavy Vehicle ¹	4																									
Utility relocation	Passenger Car	4	4																								
	Heavy Vehicle ¹	1																									
Well abandonment	Passenger Car	2	1																								
	Heavy Vehicle ¹	1																									
Concrete Batch Plant	Passenger car	6				12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
	Heavy Vehicle ¹	3				12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
Tota	1			84	84	24	112	152	152	152	152	152	152	152	152	152	152	152	152	64	64	64	64	0	0	0	0