# **APPENDIX A: COST ESTIMATE DETAILS**

### San Francisco County Cost Summary

Planned Projects	Construction, Design and Permitting Cost	\$6,145,579
	County Gap Length in Miles	11.3
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Transportation Capital Project	Construction, Design and Permitting Cost	\$192,024,065
	Gap Length in Miles	3.3
County Total	Construction, Design and Permitting Cost	\$198,169,644
	Gap Length in Miles	14.6

NOTES: Cost Classifications: See Appendix B for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and environmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B.

County Identification: Summary tables are provided for each of the nine Bay Area Counties following the Regional Cost Summary. Series are as follows: 1000=San Francisco County, 2000=San Mateo County, 3000=Santa Clara County, 4000=Alameda County, 5000=Contra Costa County, 6000=Solano County, 7000=Napa County, 8000=Sonoma County, 9000=Marin County.

	Planned Project: Planned projects include those projects typically funded with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding shown herein, including design, regulatory
	review and construction. Cost estimates for projects with either design or regulatory review completed are calculated appropriately.
1	Greenway, Promenade or Park Project: Greenway, promenade or park projects that incorporate a Bay Trail alignment as a portion of a larger-scale project. The Bay Trail component (trail facility) of larger estimated project budget assumed to be 20% of total project cost.
2	
	Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring shoreline public access. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.
3	Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with a State Highway corridor. Such project
	are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project			Construction Cost	Construction, Design &																					
Category	Segment Number	Length (ft.)		Permitting		Class	; 1		Class 2			Class 3	B	Bridge		Boardwalk		Fencing and I	Barrier		Trail Furnishing	Design Cost	Environ	mental and Pe	ermitting
					A	B	C X	A	B C	х	A	B C	٨	4	В	A	A B	С	D	No Fence	% Basis	% Basis	A	B C	
					LF	LF	LF LF	LF	LF LF	LF	LF	LF LF	1	LF	LF	LF	LF LF	LF	LF	LF	2%	20%	5%	10%	25%
					\$ 63.86	\$ 149.83	\$ 294.77 \$ 2.0	67 \$ 10.11	\$ 52.33 \$	108.74 \$ 2.67	\$ 1.67	\$ 5.34 \$	51.31	\$ 827.94	\$ 1,513.94	\$ 927.34	\$19.67 \$ 14.50	) \$ 29.9	5 \$ 49.62	\$-	2%				
	1001.0	1900.5	\$19,25	2 \$24,065				1900.5													1900.5	\$3,850	\$963		
	1002.0	2795.3	\$146,36	6 \$182,957	0.5				2795.3												2795.3	\$29,273	\$7,318		
	1005.0	1795.7	\$94,00	5 \$117,506					1795.7												1795.7	\$18,801	\$4,700		
	1006.0	1178.9	\$49,58	5 \$61,981	589.45			1178.9													1178.9	\$9,917	\$2,479		
	1008.0	880.3	\$37,02	5 \$46,282	440.15			880.3													880.3	\$7,405	\$1,851		
	1009.0	15327.2	\$160,000,00	\$192,000,000																	15327.2	\$32,000,000			
	1013.0	320.3	\$484,92	1 \$703,136											320.3						320.3	\$96,984			\$121,230
	1020.0	3902.4	\$584,77	5 \$730,968		3902.4															3902.4	\$116,955	\$29,239		
	1024.0	9668.1	\$51,82	1 \$64,776								9668.1									9668.1	\$10,364	\$2,591		
	1025.0	1093.1	\$171,72	6 \$223,244		1093.1											546.5	5			1093.1	\$34,345		\$17,173	
	1026.0	4206	\$691,25	6 \$898,633		4206											420	16			4206	\$138,251		\$69,126	
	1027.0	23272.8	\$1,486,66	6 \$1,858,333	23272.8																23272.8	\$297,333	\$74,333		
	1028.0	5382	\$54,52	\$68,150				5382													5382	\$10,904	\$2,726		
	1029.0	3934.3	\$666,94	3 \$833,678		3934.3											3934.3				3934.3	\$133,389	\$33,347		
	1032.0	1280.8	\$284,74	7 \$355,934		640.4	640.4														1280.8	\$56,949	\$14,237		

### San Mateo County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	<b>\$13,935,967</b> 14.2
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$2,827,037
	Gap Length in Miles	3.1
Transportation Capital Project	Construction, Design and Permitting Cost	\$51,816,072
	Gap Length in Miles	6.2
County Total	Construction, Design and Permitting Cost	\$68,579,077
	Gap Length in Miles	23.5

NOTES: Cost Classifications: See Appendix B for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and environmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B.

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	Planned Project: Planned projects include those projects typically funded with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding show
	herein, including design, regulatory review and construction. Cost estimates for projects with either design or regulatory review completed are calculated appropriately.
1	
	Greenway, Promenade or Park Project: Greenway, promenade or park projects that incorporate a Bay Trail alignment as a portion of a larger-scale project. The Bay Trail component (trail facility) of larger estimated project
	budget assumed to be 20% of total project cost.
2	
	Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring
	shoreline public access. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.
3	
	Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access w
	a State Highway corridor. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting																								
	Number					Cla	iss 1			Cla	ss 2			Class 3		Bridge		Boardwalk			ing and Ba				Design Cost	Enviro	onmental and	Permitting
					A B	F	LF	X LF	A B	F	LF	X LF	A LF	ь ГЕ	LF	A LF	B LF	A LF	~	B C		D LF	No Fence LF	% Basis 2%	% Basis 20%	A 5%	B 10%	C 25%
					\$ 63.86 \$	149.83	\$ 294.77	\$ 2.67	\$ 10.11 \$			\$ 2.67	\$ 1.67	\$ 5.34	\$ 51.31	\$ 827.94	\$ 1,513.94	\$ 927.34	\$19.67	\$ 14.50 \$			\$-	2%				
1	2000.0	450.4	\$28,772	\$35,964	450.4																			450.4	\$5,754	\$1,439		
3	2001.0	6584	\$516,054	\$645,067	6584															6584				6584	\$103,211	\$25,803		
3	2005.0	1833.2	\$143,686	\$179,608	1833.2															1833.2				1833.2	\$28,737	\$7,184		
3	2010.0	2868.7	\$887,260	\$1,153,438			2868.7	7												2868.7				2868.7	\$177,452		\$88,726	
3	2012.0	838.2	\$65,698	\$85,408	838.2															838.2				838.2	\$13,140		\$6,570	
1	2018.0	1928.6	\$316,965	\$412,055		1928.6														1928.6				1928.6	\$63,393		\$31,697	
1	2019.0	1486.7	\$77,829	\$97,286						1486.7														1486.7	\$15,566	\$3,891		
1	2020.0	1478.6	\$62,190	\$77,737	739.3				1478.6															1478.6	\$12,438	\$3,109		
1	2022.0	1210.9	\$63,391	\$79,238						1210.9														1210.9	\$12,678	\$3,170		
1	2023.0	2675.5	\$251,042	\$313,803	2675.5																2675.5			2675.5	\$50,208	\$12,552		
1	2024.0	3127.2	\$199,711	\$249,639	2397.2								730							3127.2				3127.2	\$39,942	\$9,986		
1	2025.0	1940.1	\$101,564	\$126,955						1940.1														1940.1	\$20,313	\$5,078	I	
1	2026.0	3770.6	\$336,937	\$421,171	3770.6											50				3770.6				3770.6	\$67,387	\$16,847	I	
1	2027.0	7469.7	\$75,668	\$94,585					7469.7															7469.7	\$15,134	\$3,783	L	
1	2028.0	5477.7	\$55,489	\$69,361					5477.7															5477.7	\$11,098	\$2,774	L	
4	2029.0	3832.7	\$405,280	\$486,336																				3832.7	\$81,056		I	
1	2030.0	2292.2	\$23,220	\$29,025					2292.2															2292.2	\$4,644	\$1,161	I	
1	2031.0	2406.6	\$188,629	\$235,787	2406.6															2406.6				2406.6	\$37,726	\$9,431	I	
1	2034.0	653.4	\$33,653	\$43,749	326.7				326.7											653.4				653.4	\$6,731		\$3,365	
	2035.0	2755.2	\$948,918	\$1,186,148			2755.2	2														2755.2		2755.2	\$189,784	\$47,446	I	
	2036.0	3738.6	\$405,280	\$486,336																				3738.6	\$81,056		<b>⊢</b> −−−−	
	2038.0	22620.4	\$34,246,381	\$49,657,252													22620.4	1						22620.4	\$6,849,276		<b>⊢−−−−</b>	\$8,561,595
3	2039.0	519.9	\$127,583	\$165,858		519.9										60								519.9	\$25,517		\$12,758	

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	a State Highway corridor. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project Category	Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting																				
	Number				A B	C X	٨	1	ass 2	Y	٨	Class 3	C	Bridge	P	Boardwalk	٨	Fencing and	D No Fen	Trail Furnishing See % Basis	Design Cost % Basis	Enviro	onmental and	Permitting
					LF LF	LF LF	LF	LF	0	LF	LF	LF	LF	LF	LF	LF	LF	IF IF	LF LF	2	% Dosis % 20%	5%	10%	25%
					\$ 63.86 \$ 149.83	3 \$ 294.77 \$ 2.6	7 \$ 10.11	\$ 52.33	\$ 108.74	\$ 2.67	\$ 1.67	\$ 5.34	\$ 51.31	\$ 827.94	\$ 1,513.94	\$ 927.34	\$19.67	\$ 14.50 \$ 29.	95 \$ 49.62 \$	- 20	6			
3	3 2040.0	499	\$74,775	\$97,208	49	99														49	9 \$14,955		\$7,478	
3	3 2041.0	963.9	\$144,440	\$180,551	963	.9														963	9 \$28,888	\$7,222		
3	3 2042.0	875.6	\$55,933	\$67,120	875.6															875	.6 \$11,187	<b> </b> '		
3	3 2047.0	625.3	\$39,944	\$53,925	625.3															625	3 \$7,989	\$1,997	\$3,994	
3	3 2048.0	326.2	\$95,248	\$119,060	326.	.2										50	<b>)</b>			326	2 \$19,050	\$4,762	<u> </u>	
1	2049.0	447	\$28,554	\$35,693	447															44	7 \$5,711	\$1,428		
3	3 2051.0	426	\$63,836	\$79,795	42	26														42	6 \$12,767	\$3,192		
1	2056.0	1007.6	\$150,989	\$188,736	1007	.6														1007	.6 \$30,198	\$7,549		
1	2057.0	1009.2	\$373,329	\$466,661	1009.2														6224.526	1009	2 \$74,666	\$18,666		
1	2058.0	670.2	\$42,812	\$53,515	670.2															670	2 \$8,562	\$2,141	<u> </u>	
1	2059.0	858.7	\$128,676	\$160,845	858	.7														858	7 \$25,735	\$6,434	<u> </u>	
1	2060.0	748.7	\$47,827	\$59,784	748.7															748	7 \$9,565	\$2,391	├───┤	
1	2061.0	1064.7	\$159,545	\$199,432	1064	.7														1064	7 \$31,909	\$7,977	├───┤	
1	2062.0	1655.6	\$105,760	\$132,200	1655.6															1655	.6 \$21,152	\$5,288	├───┤	
1	2063.0	667.8	\$42,659	\$53,324	667.8															667			├	
1	2079.0	4465.1	\$1,754,789	\$2,544,444		4215.1									250			446	5.1	4465			├───┤	\$438,697
1	2083.0	2466.7	\$157,573	\$189,087	2466.7															2466	7 \$31,515	<b> </b> '	┝───┤	
1	2085.0	1541.8	\$261,366	\$326,707	1541.	.8											1541.8			1541	.8 \$52,273	\$13,068		
1	2087.0	2455	\$723,709	\$1,049,379		2455														245			├	\$180,927
1	2088.0	1929.7	\$19,548	\$24,435			1929.7													1929		\$977	<u>                                     </u>	
1	2089.0	10724.1	\$1,832,881	\$2,657,677	10724	.1								85				10724.1		10724		'	├───┤	\$458,220
1	1 2091.0	1863.1	\$250,000	\$300,000																	\$50,000	'		
1	2092.0	3024.7	\$2,303,490	\$2,764,188															_		\$460,698	'	⊢−−−−↓	
1	2096.0	1804.3	\$305,865	\$443,504	1804	.3											1804.3			1804	3 \$61,173	L'		\$76,466

### The San Francisco Bay Trail Project Gap Analysis Study Santa Clara County Cost Summary

Planned Projects	Construction, Design and Permitting Cost	\$19,025,621
	County Gap Length in Miles	15.5
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$1,946,945
	Gap Length in Miles	3.6
Transportation Capital Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
County Total	Construction, Design and Permitting Cost	\$20,972,566
	Gap Length in Miles	19.1

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Project	Category	Legend

oject Catego	ry Legend	
		Planned Project: Planned projects include those projects typically funded with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding shown herein, including design, regulatory review and construction. Ca
		estimates for projects with either design or regulatory review completed are calculated appropriately.
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		vice way, itematical and the structure of the structure o
2		
		Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring shoreline public access. Such projects are not typically funded by
		the ABAG Bay Trail Project and are presented as a separate cost category.
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		Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with a State Highway corridor. Such projects are not typically
		funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project		Gap Segment		Construction, Design &																					
Category		Length (ft.)		Permitting		-				-															
	Number				*	C	lass 1	A	Class	s 2		Class 3		Bridge	Boardwalk	_	A D	Fencing	and Barrier	N	o Fence		Design Cost % Basis	Environmental an	d Permitting
				<i>'</i>	LF	LE	LE LE	LE LE		LE LE	A LF	IF IF	ŕ	IF IF	LE		A B	LF	LE	14	F F F	70 DOSIS	76 DOSIS	5% 10%	25%
					\$ 63.86	\$ 149.83	\$ 294.77 \$ 2	.67 \$ 10.11 \$	52.33	\$ 108.74 \$ 2.67	\$ 1.67	\$ 5.34 \$ 5	51.31	\$ 827.94 \$ 1,513	.94 \$ 9	927.34	\$19.67 \$ 14.50	0 \$	29.95 \$	49.62 \$	-	2%		-,,	
3	3000.1	19237.4	\$1,557,556	\$1,946,945	19237.4												9618.7 9618	1.7				19237.4	\$0	\$0	
1	3004.0	1225.3	\$12,388	\$15.485				1225.3															\$2,478	\$619	
	3011.0	16380.4				16380.4		112010															\$490,855	\$017	\$613,569
1	3014.0	9431.1	\$2,454,275 \$348,998		4715.55			4715.55														9431.1		\$24.00	
1	3014.0	1636.8	\$249,645		4/15.55	1636.8		47 15.55		1636.	0											1636.8	\$69,800 \$49,929	\$34,90	
1	3017.0	4277	\$640,823			4277				1030.	5											1030.0	\$128,165	\$64,08	
1	3021.0	3786.3	\$241,793		3786.3																		\$48,359	\$04,00	-
1	3021.0	2406.2	\$153,708		2406.2																	2406.2	\$30,742	\$7,685	-
1	3023.0	3578.3	\$187,324						3578.3													3578.3	\$37,465	\$9,366	
1	3024.0	3727.9	\$1,207,057				3727.9										7455	i.8				3727.9	\$241,411	\$60,353	
1	3025.0	2252.3	\$22,816					2252.3														2252.3	\$4,563	\$2,28	2
1	3026.0	2095.5	\$678,502	\$848,127			2095.5										419	91				2095.5	\$135,700	\$33,925	
1	3027.0	1930.4	\$625,044	\$781,305			1930.4										3860	).8				1930.4	\$125,009	\$31,252	
1	3028.0	3460.9	\$221,013	\$276,266	3460.9																		\$44,203	\$11,051	
1	3029.0	4464.7	\$798,512	\$998,139		4464.7											8929	9.4				4464.7	\$159,702	\$39,926	
1	3031.0	1835.4	\$594,284	\$742,855			1835.4										3670	.8				1835.4	\$118,857	\$29,714	
1	3033.0	8365.2	\$3,300,000	\$4,290,000																			\$660,000	\$330,00	0
1	3034.0	4287	\$241,165	\$313,515																		4287	\$48,233	\$24,11	7
1	3035.0	6558.9	\$2,300,000	\$3,335,000																			\$460,000		\$575,000

### Alameda County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	\$25,999,669 36.6
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$12,521,254
	Gap Length in Miles	7.3
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$3,090,859
	Gap Length in Miles	4.6
Transportation Capital Project	Construction, Design and Permitting Cost	\$44,243,011
	Gap Length in Miles	5.9
County Total	Construction, Design and Permitting Cost	\$85,854,793
	Gap Length in Miles	54.5

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### Project Category Legend

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2		Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring shoreline public access. Such projects are not typically funded by the ABAC Bay Trail Project and are presented as a separate cost actegory.
3		Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with a State Highway corridor. Such projects are not typically funded

Project Category	ap egment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting																		
1	umber				A	Class 1		Class 2	,		Class 3	C	Bridge	P	Boardwalk		encing and Barrier	N. France	Trail Furnishing % Basis	Design Cost % Basis	Enviror	nmental and Permitting
					LF LF	LF LF	LF LF	LF ,	LF	LF	LF	LF	LF	LF	LF	LF LF	LF LF	LF	% Bdsis 2%	20%	A 5%	10% 25%
					\$ 63.86 \$ 149.8	3 \$ 294.77 \$ 2.67	7 \$ 10.11 \$ 52.3	33 \$ 108.74	\$ 2.67	\$ 1.67	\$ 5.34	\$ 51.31	\$ 827.9	4 \$ 1,513.9	4 \$ 927.34	\$19.67 \$ 14.50	\$ 29.95 \$	49.62 \$ -	2%			
3	4000.0	481.2	\$728,518	\$910,647										481	.2				481.2	\$145,704	\$36,426	· · · · · · · · · · · · · · · · · · ·
3	4001.0	3631.9	\$232,006	\$290,007	3631.9														3631.9	\$46,401	\$11,600	,
1	4003.0	5967.7	\$60,333	\$75,417			5967.7													\$12,067	\$3,017	
3	4005.0	14166.6	\$904,962	\$1,131,203	14166.6														14166.6	\$180,992	\$45,248	
1	4006.0	18532.8	\$5,463,284	\$7,102,269		18532.8													18532.8	\$1,092,657		\$546,328
1	4007.0	2632.1	\$168,139	\$210,173	2632.1														2632.1	\$33,628	\$8,407	
1	4008.0	6118.4	\$16,458	\$20,573		6118.	.4												6118.4	\$3,292	\$823	
1	4011.0	15470.4	\$4,560,519	\$5,928,675		15470.4													15470.4	\$912,104		\$456,052
1	4012.0	5808	\$58,835	\$76,486			5808												5808	\$11,767		\$5,884
1	4013.0	3590.4	\$36,371	\$47,282			3590.4												3590.4	\$7,274		\$3,637
1	4015.0	3854.4	\$39,045	\$50,759			3854.4												3854.4	\$7,809		\$3,905
1	4016.0	6019.2	\$60,974	\$76,218			6019.2												6019.2	\$12,195	\$3,049	
1	4022.0 4028.0	11880 12988.8	\$20,077 \$21,951	\$25,097 \$27,439						11880 12988.8					_				11880	\$4,015 \$4,390	\$1,004 \$1,098	
1					22222					12900.0											\$1,098	
1	4029.0 4032.0	23390.4 19008	\$1,494,179	\$2,166,559	23390.4									1900					23390.4	\$298,836		\$373,545
4	4032.0	14216.3	\$28,777,352	\$41,727,160					14216.3					1900	18				14216.3	\$5,755,470	\$1,912	\$7,194,338
1	4034.0	2217.6	\$38,242	\$47,802 \$28,080			2217.6		14216.3										2217.6	\$7,648		
1	4044.0	2217.8	\$168,643	\$210,804	2640		2217.0												2217.8	\$33,729	\$8,432	
1	4045.0	3220.8	\$108,643	\$210,804	2640				3220.8										3220.8	\$33,729	\$433	
	4048.0	897.6							3220.8										3220.8	\$1,733	\$433	
1	4049.0	6758.4	\$2,188,000	\$2,188,000				6758.4											6758.4	\$147,009	\$36,752	
4	4053.0	3273.6	\$735,044			3273.6		07 38.4											3273.6			
1	4057.0	2798.4	\$965,025 \$419,340	\$1,206,281 \$524,175	2798														2798.4	\$193,005		
2	4062.0	1108.8	\$419,340	\$324,175	1108.8														1108.8	\$83,666		
2	4069.0	739.2	\$400,000	\$500,000	1100.0														739.2	\$80,000		
2	4071.0	81.3	\$400,000	\$365,879															81.3	\$58,541		
1	4071.0	3537.6	\$185,669	\$303,87	2787.6		750												3537.6	\$37,134	\$9,283	
2	407 2.0	897.6	\$183,889	\$330,732	2/0/10	897.6	/ 50			1									897.6	\$52,917		
2	4075.0	475.2	\$372,408	\$465,510		077.0				1									475.2	\$74,482		
2	4077.0	792	\$48,380	\$60,475						1									792	\$9,676	\$2,419	
2	407 8.0	7708.8	\$12,999	\$16,249			7708.8												7708.8	\$7,676		
2	4080.0	95.4	\$12,777				// 00.0												, / 08.8	φ <b>2,000</b>	4030	
2	4061.0	¥5.4	<b>≱</b> ∠64,506	<b>≱</b> ∠64,506		I I	1 1			1	L	I	1		-		1	1	1			

ject Category Le	Plann							, park districts, and	other land management agencies. Projects require the funding	shown herein, including design, regulatory review and	construction. Cost	]					
1				egulatory review complet								_					
	Greer	enway, Promer	ade or Park Project: Gr	eenway, promenade or p	park projects that in	ncorporate a B	ay Trail alignment as a portion of a lo	arger-scale project.	The Bay Trail component (trail facility) of larger estimated proj	ect budget assumed to be 20% of total project cost.							
2	Priva	ate Land Owne	rship Development Proj	ject: The Bay Trail projec	t cost assumed to b	e condition of	development or subject to the Bay Co	nservation and Deve	elopment Commission (BCDC) regulatory permitting process, req	uiring shoreline public access. Such projects are not typ	ically funded by the	-					
2	ABAG	G Bay Trail Pro	ject and are presented c	as a separate cost catego	ory.												
3	Trans	sportation Cap	ital Project: The Bay Tra	ail project cost assumed to	be incorporated in	n Caltrans or o	other agency transportation capital inv	estment as a non-mo	otorized project share providing for bicycle and pedestrian acc	ess with a State Highway corridor. Such projects are r	ot typically funded	-					
4	by me	IE ABAG BOY I	raii Project and are pres	ented as a separate cost	category.												
												-					<b></b>
2	4082.0	316.8	\$31,251	\$39,064											316.8	\$6,250	
2	4083.0 4084.0	83.6	\$847,216	\$1,059,020											83.6	\$169,443	
1	4084.0	739.2 792	\$58,042 \$8,023	\$72,553 \$10,029				792							739.2	\$11,608	\$2,902 \$401
2	4086.0	413.7	\$125,467	\$156,834				772							///2	\$25,093	
2	4087.0	78.4	\$161,628	\$202,035												\$32,326	
3	4089.0	950.4	\$280,168	\$350,211			950.4								950.4	\$56,034	
1	4090.0	2956.8	\$29,952	\$37,440				2956.8							2956.8	\$5,990	\$1,498
1	4091.0	1584	\$101,186	\$126,482	1584										1584	\$20,237	
2	4092.0	114.2	\$113,341	\$141,677											114.2	\$22,668	\$5,667
2	4093.0	99.3	\$302,240	\$377,800											99.3	\$60,448	\$15,112
2	4094.0	950.4	\$809,325	\$1,011,656											950.4	\$161,865	\$40,466
2	4096.0	739.2	\$469,999	\$587,499											739.2	\$94,000	\$23,500
2	4100.0	2798.4	\$6,178	\$7,722				2798.4							2798.4	\$1,236	\$309
2	4104.0	528	\$221,365	\$265,638											528	\$44,273	I
2	4105.0	4276.8	\$667,269	\$834,086	4276.8										4276.8	\$133,454	\$33,363
2	4106.0	475.2	\$30,650	\$38,313	475.2										475.2	\$6,130	\$1,533
2	4107.0	844.8	\$151,711	\$182,053											844.8	\$30,342	l
2	4108.0	4329.6	\$374,676	\$468,345	4329.6										4329.6	\$74,935	\$18,734
2	4116.0	1267.2	\$445,473	\$534,568											1267.2	\$89,095	1
1	4117.0	2217.6	\$116,091	\$145,114					2217.6						2217.6	\$23,218	\$5,805
2	4118.0	297.7	\$226,552	\$226,552											297.7		
1	4120.0	1108.8	\$70,830	\$88,538	1108.8										1108.8	\$14,166	\$3,542
2	4122.0	5596.8	\$2,000,000	\$2,400,000			5596.8								5596.8	\$400,000	I
2	4125.0	2798.4 2323.2	\$1,503,317	\$1,803,981			2798.4 2323.:	2							2798.4 2323.2	\$300,663	
1	4128.0	11510.4	\$6,249 \$1,173,715	\$7,499 \$1,408,459			2323.	1	11510.4					11510.4	11510.4	\$1,250	
1	4142.0	12302.4	\$1,254,476	\$1,630,818					12302.4					12302.4	12302.4	\$250,895	
1	4143.0	897.6	\$9,093	\$11,366				897.6							897.6	\$1,819	
4	4146.0	1214.4	\$63,574	\$79,467					1214.4						1214.4	\$12,715	
4	4147.0	844.8	\$249,039	\$311,298			844.8								844.8	\$49,808	
1	4151.0	897.6	\$261,736	\$314,083											897.6	\$52,347	
1	4152.0	844.8	\$246,340	\$295,608											844.8	\$49,268	
1	4155.0	1636.8	\$477,283	\$572,740											1636.8	\$95,457	
1	4156.0	1214.4	\$354,113	\$424,936											1214.4	\$70,823	Ⅰ ↓ ↓
1	4157.0	950.4	\$277,132	\$332,559											950.4	\$55,426	
1	4158.0	1742.4	\$508,076	\$609,691											1742.4	\$101,615	<b> </b> ── <b> </b> ──
1	4159.0	2164.8	\$631,246	\$757,495											2164.8	\$126,249	
3	4163.0	2006.4	\$128,169	\$153,803	2006.4										2006.4	\$25,634	
3	4164.0	3326.4	\$212,490	\$254,989	3326.4										3326.4	\$42,498	
1	4166.0	2323.2	\$148,406	\$178,087	2323.2			<u> </u>			<u> </u>		I		2323.2	\$29,681	

## The San Francisco Bay Trail Project Gap Analysis Study Contra Costa County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	\$31,906,191 37.6
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$552,220
	Gap Length in Miles	0.2
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$2,640,927
	Gap Length in Miles	3.0
Transportation Capital Project	Construction, Design and Permitting Cost	\$19,472,675
	Gap Length in Miles	1.7
County Total	Construction, Design and Permitting Cost	\$52,703,468
	Gap Length in Miles	42.2

NOTES: Cost Classifications: See Appendix B for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and environmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B.

County Identification: Summary tables are provided for each of the nine Bay Area Counties following the Regional Cost Summary. Series are as follows: 1000=San Francisco County, 2000=San Mateo County, 3000=Santa Clara County, 4000=Alameda County, 5000=Contra Costa County, 6000=Solano County, 7000=Napa County, 8000=Sonoma County, 9000=Marin County.

### **Project Category Legend**

	Planned Project: Planned projects include those projects typically funded with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding shown
	herein, including design, regulatory review and construction. Cost estimates for projects with either design or regulatory review completed are calculated appropriately.
1	
	 Greenway, Promenade or Park Project: Greenway, promenade or park projects that incorporate a Bay Trail alignment as a portion of a larger-scale project. The Bay Trail component (trail facility) of larger estimated project
	budget assumed to be 20% of total project cost.
2	
	Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring
	shoreline public access. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.
3	
	Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with
	a State Highway corridor. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project	Gap	Gap Segment	Construction Cost																								
	Segment	Length (ft.)		Design & Permitting																							
	Number					Cla	iss 1				Class 2			Class 3	1	Bridge		Boardwalk	Ļ	Fend	ing and Barrie		-	Design Cost	Enviro	nmental and Perm	nitting
					A B	i IF	C	X	A	B	C IF	X IF	A	B	C	A	B	A IF	A	B	C D	Fence %	6 Basis	% Basis 20%	A 5%	B C	25%
					-	61		LI	\$ 10.11	E1	\$ 108.74		57 \$ 1.6	L1		\$ 827.94	LI	\$ 927.34	\$19.67	LI	\$ 29.95 \$	 	2%		J /0	1078	2370
3	5006.0	3275	\$209,207	\$251,048	3275		÷ _/////	÷	÷	<b>+</b> • <b>-</b> 1.00	÷	<u>+</u>		÷ 0.01	<b>•</b> • • • • •	• • • • • • •	<i> </i>	<i>Ţ</i> , <u>1</u> ,101	<i><b><i>t</i></b></i>	•	+ +		3275				
2	5008.0	1108.8	\$424,785	\$552,220	5275	776.16												332.64	1				1108.8	\$84.957		\$42,478	
						// 0.10												002.0-					1100.0	φ0 <b>-</b> ,/3/		φ-2,-, 0	
1	5012.0	7128	\$714,621	\$750,352																					\$35,731		
3	5012.1	1378.3	\$126,110	\$132,415	1378.3													-					1378.3		\$6,305		
1	5017.0	1108.8	\$177,364	\$221,705		1108.8																	1108.8	\$35,473	\$8,868		
3	5022.0	4367	\$654,395	\$817,994		4367																	4367	\$130,879	\$32,720		
1	5030.0	3854.4	\$317,217	\$412,382		4007				3854.4											3854.4		3854.4	\$63,443	ψ02,/ 20	\$31,722	
1	5031.0	2376	\$3,450,000	\$4,140,000						0004.4											0004.4		2376	\$690,000		<i>worp 22</i>	
1	5032.0	1267.2	\$3,450,000	\$4,140,000																			1267.2	\$690,000			
4	5034.0	8870.4	\$13,429,431	\$19,472,675									_				8870.4	4					8870.4	\$2,685,886		\$ <del>7</del>	\$3,357,358
1	5036.0	6652.8	\$740,334	\$925,417		2195.424													6652.8				6652.8	\$148,067	\$37,017		
3	5038.0	1425.6	\$119,109	\$148,886	1425.6														1425.6 8078.4				1425.6	\$23,822	\$5,955		
1	5040.0 5043.0	8078.4	\$674,950 \$173,000	\$843,688 \$224,900	8078.4								-					-	80/8.4				8078.4	\$134,990 \$34,711	\$33,748	\$17,355	
1	5043.0	1689.6	\$173,000	\$224,900																			1689.6	\$34,711 \$54,913		\$17,355	
1	5045.0	5280	\$495,422	\$718,362	5280																5280		5280	\$99,084			\$123,856
1	5048.0	1425.6	\$173,000	\$224,900	5280																5200		1425.6	\$32,361			\$123,030
1	5040.0	1423.0	\$173,000	\$224,900																			1423.0	\$50,118		\$25,059	
1	5052.0	1689.6	\$341,603	\$444,084		1689.6												1					1689.6	\$68,321		\$34,160	
1	5052.0	3443.8	\$583,793	\$846,500		3443.8			1							1		1	3443.8				3443.8	\$116,759			\$145,948
1	5053.1	2702.5	\$289,173	\$375,925	1621.5	1081												1	1200.0				2702.5	\$57,835		\$28,917	
1	5054.0	5280	\$1,480,513	\$2,146,744	1200		4080	0								100	)			8160			5280			· · ·	\$370,128
1	5055.0	5415.5	\$9,152	\$10,983									5415	5					1				5415.5	\$1,830			
1	5057.0	6523.3	\$11,024	\$13,780									6523						1				6523.3	\$2,205	\$551		

ect Category Lege	end															_										
		•		,		•				cities, counties, park district		gement agenc	ies. Projects r	require the f	unding shown											
	her	ein, including	design, regulatory re	eview and construction.	. Cost estimo	ates for projects wi	ith either de	esign or regu	ulatory review	v completed are calculated	appropriately.															
			n <b>enade or Park Proje</b> to be 20% of total p		enade or par	k projects that inco	orporate a l	Bay Trail ali	ignment as a	portion of a larger-scale p	roject. The Bay Trail com	nponent (trail t	facility) of lar	rger estimate	d project	-										
			• •	ent Project: The Bay Tr are not typically funde				•	•	to the Bay Conservation an e cost category.	d Development Commiss	sion (BCDC) re	gulatory peri	mitting proce	ss, requiring	1										
4				ay Trail project cost a ects are not typically f						ion capital investment as a irate cost category.	non-motorized project sł	hare providing	g for bicycle o	and pedestr	an access with											
ject Gap egory Segme Numbe	ent Len	o Segment gth (ft.)	Construction Cost	Construction, Design & Permitting		Class	1			Class 2			Class 3		Bridge		Boardwalk		Eonsin	g and Ba			Trail Furnishing	Design Cost	Enviro	nmental and Permittin
Nombe					A	B C		х	A		Х	A	B	С		В	A	A R	C	g ana ba	D	No Fence	*	% Basis		B C
					LF	LF LF		LF	LF	LF LF	LF	LF	=	LF	LF	LF	LF		LF	:	LF	LF	20	% 20%	5%	-
	Ī				\$ 63.86	\$ 149.83 \$	294.77	\$ 2.67	\$ 10.11	\$ 52.33 \$ 108.74	\$ 2.67	\$ 1.67	\$ 5.34	\$ 51.31	\$ 827.94	\$ 1,513.94	\$ 927.34	\$19.67 \$	14.50 \$	29.95	\$ 49.62	\$-	20	%		
1 5	058.0	2827.6	\$443,903	\$577,074		820			1800							200							2827	.6 \$88,781		\$44,390
1 5	059.0	11675.9	\$1,650,134	\$1,980,161																			11675	.9 \$330,027		
1 5	060.0	3069.2	\$559,124	\$670,949																			3069	.2 \$111,825		
1 5	062.0	9316.7	\$94,192	\$117,740					9316.7	7														\$18,838	\$4,710	
1 5	067.0	2655.5	\$469,413	\$610,237		2655.5												2655.5	1327.8				2655.	.5 \$93,883		\$46,941
1 5	6072.0	26391.3	\$44,601	\$55,752								26391.3	3										26391	.3 \$8,920	\$2,230	
1 5	076.0	3612.4	\$6,033	\$7,541								3612.4	1											\$1,207	\$302	
1 5	078.2	1571.5	\$235,458	\$235,458		1571.5																				
1 5	080.0	8852.1	\$3,200,000	\$3,840,000																				\$640,000		
1 5	081.2	2117.7	\$317,295	\$396,619		2117.7																		\$63,459	\$15,865	
1 5	083.0	8985.2	\$3,200,000	\$3,840,000																				\$640,000		
1 5	085.0	4592.8	\$90,432	\$113,040														4592.8					4592		\$4,522	
_	086.0	2564.2	\$434,683	\$543,354		2564.2												2564.2					2564		\$21,734	
-	6087.0	5020.7	\$8,385	\$10,481		2304.2						5020.7	7					2004.2					2004	\$1,677	\$419	
	088.0	7927.8	\$415,020	\$539,526						7927.8													7927		÷	\$41,502
_	089.0	2466.3	\$4,168	\$5,210		1			1			2466.3	3			1							2466		\$208	
	090.0	12298.6	\$20,785	\$25,981								12298.6											12298		\$1,039	
1 5	092.0	5016.6	\$1,515,214	\$1,969,778		1	5016.6						1						2508.3				5016			\$151,521
1 5	093.0	4043.3	\$21,672	\$27,090									4043.3	3									4043		\$1,084	
1 5	095.0	4418	\$23,680	\$29,601									4418	3									441		\$1,184	
1 5	096.0	7726.9	\$41,416	\$51,770									7726.9	9									7726	.9 \$8,283	\$2,071	
1 5	098.0	465	\$137,077	\$171,347			465					1	1		1	1			1				46		\$6,854	

### Solano County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	\$3,822,173 11.7
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Transportation Capital Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
County Total	Construction, Design and Permitting Cost	\$3,822,173
	Gap Length in Miles	11.7

NOTES: Cost Classifications: See Appendix B for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and environmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B. County Identification: Summary tables are provided for each of the ine Boy Area Counties following the Regional Cost Summary. Series are as follows: 1000=San Francisco County, 2000=San Mateo County, 3000=Santa Clara County, 4000=Alameda County, 5000=Contra Costa County, 6000=Solano County, 7000=Napa County, 9000=Marin County. Solano County Cost Note: Costs shown in this table without quantities are obtained directly from project feasibility studies and countywide trail study documents and are not calculated herein.

	Planned Project: Planned projects include those projects typically funded by with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding shown herein, including design, regulatory review and
,	construction. Cost estimates for projects with either design or regulatory review completed are calculated appropriately.
	Greenway, Promenade or Park Project: Greenway, promenade or park projects that incorporate a Bay Trail alignment as a portion of a larger-scale project. The Bay Trail component (trail facility) of larger estimated project budget assumed to be 20% of total project cost.
2	
	Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring shoreline public access. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.
3	
	Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with a State Highway corridor. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting																									
	Number					-	Class 1			-	Class				Class 3	_	Bridge			Boardwalk			ing and Barrie			Trail Furnishing		Environmental	and Permitting
					A LF	В LF	LF	X LF	A LF	LF	L	F LF	A	A LF	LF (	LF	A LF	B LF		A A A	F	IF L	F	D LF	No Fence LF	% Basis 2%	% Basis 20%	а В 5%	10% 25%
					\$ 63.86	\$ 149.83	\$ 2	94.77 \$	2.67 \$	10.11 \$	52.33 \$	108.74 \$	2.67	\$ 1.67	\$ 5.34	\$ 51.31	\$	827.94 \$	1,513.94	\$ 927.34	\$19.67	\$ 14.50 \$	5 29.9	95 \$	49.62 \$ -	2%			
	6006.0	0 1692.5	\$28,915	\$36,144																							\$5,783	\$1,446	
	6006.	1 1130.4	\$25,627	\$32,034																							\$5,125	\$1,281	
	6007.0	0 808.6	\$127,924	\$159,905																							\$25,585	\$6,396	
	6008.0	0 1162.6	\$118,084	\$147,605																							\$23,617	\$5,904	
	6008.	1 413.3	\$33,434	\$41,793																							\$6,687	\$1,672	
	6008.2	2 543.8	\$7,091	\$8,864																							\$1,418	\$355	
	6008.3	3 765.9	\$4,538	\$5,673																							\$908	\$227	
	6008.4	4 1563.9	\$25,977	\$32,471																							\$5,195	\$1,299	
	6014.0	924.9	\$19,054	\$23,818																							\$3,811	\$953	
	6015.	1 1029.7	\$37,207	\$46,509																							\$7,441	\$1,860	
	6015.2	2 300.5	\$26,190	\$32,738																							\$5,238	\$1,310	
	6015.3	3 78.8	\$24,024	\$30,030																							\$4,805	\$1,201	
	6015.4	4 532.2	\$29,302	\$36,628																							\$5,860	\$1,465	
	6015.	5 629.9	\$33,168	\$41,460																							\$6,634	\$1,658	
	6015.0	6 238.4	\$13,737	\$17,171																							\$2,747	\$687	
	6015.7	7 640.4	\$13,852	\$17,315																							\$2,770	\$693	
	6015.8	в 373.9	\$21,158	\$26,448																							\$4,232	\$1,058	
	6015.9	9 177.9	\$6,052	\$7,565																							\$1,210	\$303	
	6016.0	1880	\$49,466	\$61,833																							\$9,893	\$2,473	
	6016.	1 980	\$19,054	\$23,818																							\$3,811	\$953	
	6016.2	2 4772.4	\$39,777	\$49,721																							\$7,955	\$1,989	
	6019.0	0 3191.5	\$32,266	\$38,719						3191.5																	\$6,453		
	6020.0	4478.9	\$1,320,245	\$1,650,307				4478.9																			\$264,049	\$66,012	
	6023.0	5432.2	\$57,613	\$69,136																							\$11,523		
	6023.	1 3589.3	\$3,994	\$4,793																							\$799		
	6023.2	2 1129.4	\$119,459	\$143,351																							\$23,892		
	6031.0	3431.8	\$97,270	\$121,587																							\$19,454	\$4,863	
	6032.0	0 7037.4	\$229,209	\$286,511																							\$45,842	\$11,460	

Project Catego	ory Legend																								
		Planned Project	Planned projects incl	ude those projects typ	ically fun	ded by with	n public mone	ey. Lead	agencies typically i	include citi	es, counties, park (	districts	, and other land man	nagement age	encies. Projecte	s requir	re the funding show	n herein, includ	ing design, regu	latory review	and				
		construction. Co	st estimates for project	s with either design or	regulato	ry review co	ompleted are	e calculat	ted appropriately.																
1		Greenway, Pro	menade or Park Projec	ct: Greenway, promen	ade or p	ark projects	s that incorpo	orate a Be	ay Trail alignment a	as a portion	n of a larger-scale	e projec	ct. The Bay Trail com	ponent (trail fe	acility) of larg	er estin	nated project budg	et assumed to l	be 20% of tota	project cost.					
			wnership Developmen I by the ABAG Bay Tra						development or sub	ject to the	Bay Conservation	and De	evelopment Commissi	ion (BCDC) reg	gulatory perm	itting p	process, requiring sh	oreline public c	iccess. Such proj	ects are not					
			Capital Project: The Bc I by the ABAG Bay Tra						ther agency transpo	ortation cap	pital investment as	a non-	motorized project sh	are providing	for bicycle ar	ıd pede	estrian access with a	a State Highwa	y corridor. Suc	n projects are	not				
Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting				Class 1					Class 2					Class 3		Bridge			Boardw	alk	
					А		В	С	х		A	В	C		х	А	В	C		A		В	А		A B
					LF		LF	LF	LF		LF	LF	LF		LF	LF	LF	LF		LF		LF	LF		LF LF
					\$	63.86	\$ 149.83	\$	294.77 \$	2.67	\$ 10.11	\$	52.33 \$	108.74	\$ 2.	67 \$	1.67 \$	5.34 \$	51.31	\$	827.94	\$ 1,513.94	4 \$	927.34	\$19.67 \$
1	6033.0	3001.3	\$449,685	\$562,106			3001.3	3																	
1	6034.0	746.7	\$42,175	\$52,718																					
1	6035.0	3921.4	\$4,679	\$5,849	,																				
1	6036.0	3821.3	\$4,319	\$5,399	,																				
1	6037.0	1364.9	\$1,727	\$2,158																					

Fe	ncing ar	nd Barrier					Trail Furnishing	Design Cost	Environn	nental and P	ermitting
	С		D		No Fei	nce			A	В	С
	LF		LF		LF		2%		5%	10%	25%
14.50	\$	29.95	\$	49.62	\$	-	2%				
								\$89,937	\$22,484		
								\$8,435	\$2,109		
								\$936	\$234		
								\$864	\$216		
								\$345	\$86		

### Napa County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	\$13,664,401 33.1
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Transportation Capital Project	Construction, Design and Permitting Cost	\$52,000
	Gap Length in Miles	0.9
County Total	Construction, Design and Permitting Cost	\$13,716,401
	Gap Length in Miles	34.0

NOTES: Cost Classifications: See Appendix 8 for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and environmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B. County Identification: Summary tables are provided for each of the nine Bay Area Counties following the Regional Cost Summary. Series are as follows: 1000=San Francisco County, 2000=San Mateo County, 3000=Santa Clara County, 4000=Alameda County, 5000=Contra Costa County, 6000=Solano County, 7000=Napa County, 8000=Sonoma County, 9000=Marrin County.

relation Catagory Lana																						
roject Category Legenc		oject: Planned projects include	e those projects typically fu	unded with public money. Lead agen	cies typically include cities,	counties, park districts	, and other land mana	gement agencies. Projects require	the funding s	hown herein, includin	g design, regulatory	review and a	construction. Cost									
									-													
1	-		<u> </u>																			
	Property heads       Prope																					
2																						
-					velopment or subject to the	Bay Conservation and	Development Commis	sion (BCDC) regulatory permitting	process, requi	iring shoreline public	access. Such project	s are not typi	ically funded by the									
	ABAG Bay	Trail Project and are presente	d as a separate cost categ	gory.																		
3																						
					r agency transportation co	ipital investment as a r	on-motorized project s	hare providing for bicycle and pe	destrian acces	ss with a State Highw	vay corridor. Such p	rojects are no	ot typically funded									
4	57 110 7 157			si calegoi yi																		
4															-							
Project Gap ateaory Seament																						
Number	_0.1911 (11)		w i criming	Class	5 1			Class 2			Class 3	B	Bridge	Boardwalk		Fencing and Barrie				Design Cost	Environme	ental and Permitting
				A B C	X	A	B	C X	A	A B	C	A	A B	A	A B	C	D	No Fence	% Basis	% Basis A	A E	3 C
				\$ 63.86 \$ 149.83 \$	294.77 \$	2.67 \$ 10	.11 \$ 52.33	B \$ 108.74 \$	2.67	\$ 1.67 \$	5.34 \$	51.31	\$ 827.94 \$	1,513.94 \$ 927.34	\$19.67	14.50 \$ 29.9	95 \$ 49.62	۱۲ ۲ -	2%	20%	3%	10% 23
1 704	04.0	740 1 <b>***</b> 740	e \$20.104									1								\$12.150	\$2.207	
				2756.2																		
				37 30.2																		
1 70	07.0 38	302.8 <b>\$38,44</b> 6	6 \$48,058			38	02.8													\$7,689	\$1,922	
1 70	08.0	120 \$216,509	9 \$270,636	1726.28	2	2589.42							120						1 20	\$43,302	\$10,825	
1 70	11.0 123	\$644,240	\$805,300				12311.	1												\$128,848	\$32,212	
1 70	12.0 143	312.5 <b>\$2,144,44</b>	2 \$2,680,552	14312.5																\$428,888	\$107.222	
						22	23.4														+·•· /	\$2,248
		223.4 <b>\$22,47</b> 9					23.4													\$4,496		
1 70 1 70		529.5 \$410,211 515.2 \$350,990		1675.915 1494.735 5515.2									60			2038.3				\$82,042 \$70,440	\$17,610	\$41,021
				5515.2																\$70,440	\$17,010	
1 70	15.0 1050	07.63 <b>\$330,33</b>	6 \$330,336				10507.6	3												\$0	\$0	
1 70							11265.1													\$0	\$0	
1 70		328.6 \$460,34 455.8 \$9,11					8796.87	6		5455.8										\$92,068 \$1,822	\$23,017 \$456	
		547.6 \$158,197				156	17.6													\$31,639	\$7,910	
1 70		340.6 <b>\$53,99</b> 3 739.8 <b>\$685,84</b> 4		10739.8		53	10.6													\$10,799 \$137,169	\$2,700	\$171,46
				10/0/.0																		φ171740
1 70		936.7 \$1,231,720 6344 \$331,982					7396.	4									-			\$77,414 \$66,396	\$19,353 \$16,599	
1 70 4 70		790.9 <b>\$58,54</b> 497.9 <b>\$52,00</b>		4497.9		57	/0.9													\$11,709 \$134,784	\$2,927	\$67,392
1 70	26.2 16	558.5 <b>\$2,79</b>	9 \$2,799						1658.5											\$886	\$221	
1 70		558.2 \$539,677 010.1 \$2,248,963		15010.1					5558.2											\$2,968 \$449,793	\$742 \$112,448	
1 70		114.4 \$162,977		15010.1			3114.	4												\$449,793 \$32,595	\$112,448 \$8,149	
1 70	31.0 23	\$10.3 \$23,357	7 \$29,196			23	0.3													\$4,671	\$1,168	
1 70		743.8 \$17,630 290.2 \$224.500	0 \$22,037 6 \$280.633			17-	4290.	2												\$3,526 \$44,901	\$881 \$11,225	
1 70.	JZ.J 41	#224,500	φ <b>200,0</b> 33		1		4290.	4												ş44,701	223ر ۱۱ ب	

## The San Francisco Bay Trail Project Gap Analysis Study Sonoma County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	<b>\$22,949,700</b> 44.0
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Transportation Capital Project	Construction, Design and Permitting Cost	\$2,436,732
	Gap Length in Miles	0.3
County Total	Construction, Design and Permitting Cost	\$25,386,432
	Gap Length in Miles	44.3

NOTES: Cost Classifications: See Appendix B for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and nvironmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B.

County Identification: Summary tables are provided for each of the nine Bay Area Counties following the Regional Cost Summary. Series are as follows: 1000=San Francisco County, 2000=San Mateo County, 3000=Santa Clara County, 4000=Alameda County, 5000=Contra Costa County, 6000=Solano County, 7000=Napa County, 8000=Sonoma County, 9000=Marin County.

Project Catego	ry Legend	
		Planned Project: Planned projects include those projects typically funded with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding shown herein,
		including design, regulatory review and construction. Cost estimates for projects with either design or regulatory review completed are calculated appropriately.
1		Greenway, Promenade or Park Project: Greenway, promenade or park projects that incorporate a Bay Trail alignment as a portion of a larger-scale project. The Bay Trail component (trail facility) of larger estimated project budget
		assumed to be 20% of total project cost.
2		
		Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring
		shoreline public access. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.
3		
		Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with a
		State Highway corridor. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.
4		

Project Category		Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting																						
	Segment Number					Class	; 1				Class 2			Class 3		Bridge		Boardwalk		Fencing and	Barrier		Trail Furnishin		Environment	al and Permitting
				A	A B	C		X LF	A	B C	-	X	A	B	C	A	В	A	A B	C	D	No Fence	% Basis	% Basis	A B 5%	C 10% 25%
						149.83 \$	-		i	\$ 52.33 \$		61	7 \$ 1.67		LF \$ 51.31	\$ 827.94	\$ 1,513.94	\$ 927.34	LF LF LF	14.50 \$ 29.9	-	49.62 \$ -	2%	20%	5%	10% 25%
	8000.0	15779.22	\$825,727	\$1,073,445	+ +			÷ 107	÷	15779.22		÷	<b></b>	<b>+</b> 0.01	<b>*</b> • • • • •	<b></b>	<i> </i>	<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i></i>		·• •	····· •	- /0	\$165,145		\$82,573
	8001.0	16115.19	\$843,308	\$1,096,300						16115.19														\$168,662		\$84,331
	8002.0	1830.4	\$55,000	\$71,500																				\$11,000		\$5,500
	8002.1	8033.7	\$1,025,000	\$1,332,500																				\$205,000	\$	\$102,500
	8003.1	3253.7	\$2,500,000	\$3,250,000																				\$500,000	\$	\$250,000
	8003.2	1706.5	\$1,000,000	\$1,300,000																				\$200,000	s	100,000
	8004.0	29340.44	\$1,535,385	\$1,996,001						29340.44														\$307,077	\$	\$153,539
	8005.0	10250	\$27,368	\$34,209								102	50											\$5,474	\$1,368	
	8005.1	3898.2	\$10,000	\$13,000																				\$2,000		\$1,000
	8005.2	2714	\$5,000	\$6,500																				\$1,000		\$500
	8005.3	2100	\$5,000	\$6,500																				\$1,000		\$500
	8005.8	6968.5	\$800,000	\$1,040,000																				\$160,000		\$80,000
	8006.0	7454.6	\$75,366	\$94,208					7454.6															\$15,073	\$3,768	
	8006.2	4230.1	\$185,000	\$240,500																				\$37,000		\$18,500
	8006.3	4796.7	\$30,000	\$39,000															4796.7					\$6,000		\$3,000
	8007.0	30498.1	\$2,005,000	\$2,606,500																				\$401,000	\$	\$200,500
	8007.1	472.6	\$5,000	\$6,500																				\$1,000		\$500
	8008.0	36754.63	\$1,923,370	\$2,500,381						36754.63														\$384,674	\$	\$192,337
	8009.0	1356.2	\$5,000	\$6,500																				\$1,000		\$500
	8010.1	7515.9	\$255,000	\$331,500																				\$51,000		\$25,500

				clude those projects typi								ment agencies.	Projects requi	re the funding	g shown herein,					
		including design,	regulatory review a	nd construction. Cost es	timates for projects	with either design	or regulatory re	eview comple	eted are calcula	ted appropria	tely.									
<u> </u>			nenade or Park Proje 0% of total project c	e <b>ct:</b> Greenway, promen ost.	ade or park project	s that incorporate o	a Bay Trail alig	gnment as a p	portion of a larg	jer-scale proje	ct. The Bay Trail compo	onent (trail facili	ity) of larger	estimated pro	ject budget					
2				ent Project: The Bay Tra are not typically funded						ervation and D	evelopment Commission	n (BCDC) regulo	ntory permittin	ng process, re	quiring					
3			• •	ay Trail project cost ass s are not typically funde	•		• ,	•	•		motorized project sha	re providing for	bicycle and p	pedestrian ac	cess with a					
	Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting		Class 1				Class 2			Class 3		Bridge		Boardwalk			Fencing and Ba
Project Category			Construction Cost	Design & Permitting	A B LF LF	Class 1 C LF	X LF	A LF	B LF	Class 2 C LF	X LF	A LF	Class 3 B LF	C LF	Bridge A LF	B LF	Boardwalk A LF	A LF	B	Fencing and Ba
	Segment	Length (ft.)		Design & Permitting	A B LF LF	С	~	A LF	B LF	С	X LF	A LF	Class 3 B LF	С	A	В	A	A LF	В	Fencing and Ba C LF
	Segment Number	Length (ft.)	\$50,000	Design & Permitting \$65,000	A B LF LF	С	~	A LF	B LF	С	X LF	A LF	Class 3 B LF	С	A	В	A	A LF	В	Fencing and Ba C LF
	Segment Number 8010.2	Length (ft.) 2840.2 707	\$50,000	Design & Permitting \$65,000 \$845,000	A B LF LF	С	~	A LF	B LF	С	X LF	A LF	Class 3 B LF	С	A	В	A	A LF	В	Fencing and Ba C LF

1	8011.2	1143.3	\$10,000	\$13,000					1
4	8012.1	1238.1	\$1,874,409	\$2,436,732			1238.1		
1	8012.3	3291.5	\$1,005,000	\$1,306,500					
1	8012.4	124.8	\$42,500	\$55,250					
1	8012.5	632.3	\$10,000	\$13,000					
1	8013.0	16702.3	\$565,000	\$734,500					
1	8014.1	8008.5	\$2,005,000	\$2,606,500					
1	8018.0	3908.73	\$204,544	\$265,907	3908.73				

nd Barr	rier		Trail Furnishin	Design Cost	Environ	mental and Pe	rmitting
[	D	No Fence	% Basis	% Basis	A	В	С
	LF	LF	2%	20%	5%	10%	25%
				\$10,000		\$5,000	
				\$130,000		\$65,000	
				\$2,000		\$1,000	
				\$374,882		\$187,441	
				\$201,000		\$100,500	
				\$8,500		\$4,250	
				\$2,000		\$1,000	
				\$113,000		\$56,500	
				\$401,000		\$200,500	
				\$40,909		\$20,454	

### Marin County Cost Summary

Planned Projects	Construction, Design and Permitting Cost County Gap Length in Miles	\$37,274,852 50.3
Greenway, Promenade or Park Project	Construction, Design and Permitting Cost	\$0
	Gap Length in Miles	0.0
Private Land Ownership Development Project	Construction, Design and Permitting Cost	\$312,606
	Gap Length in Miles	0.6
Transportation Capital Project	Construction, Design and Permitting Cost	\$38,879,114
	Gap Length in Miles	3.7
County Total	Construction, Design and Permitting Cost	\$76,466,439
	Gap Length in Miles	121.3

### NOTES:

Cost Classifications: See Appendix B for supporting information for all cost per lineal foot categories used in this cost estimate table. Explanation, sourcing and documentation for all Class I, II, III and other trail construction, design, and environmental review costs are presented. Explanation for A, B, C, and X level of implementation cost is also included in Appendix B. County Identification: Summary tables are provided for each of the nine Bay Area Counties following the Regional Cost Summary. Series are as follows: 1000=San Francisco County, 2000=San Mateo County, 3000=Santa Clara County, 4000=Alameda County, 5000=Contra Cost County, 6000=Solano County, 7000=Napa County, 8000=Sonoma County, 9000=Marin County.

# Project Category Legend Planned Project: Planned projects include those projects typically funded with public money. Lead agencies typically include cities, counties, park districts, and other land management agencies. Projects require the funding shown herein, including design, regulatory review and construction. Cost estimates for projects with either design or regulatory review completed are calculated appropriately. Greenway, Promenade or Park Project: Greenway, promenade or park projects that incorporate a Bay Trail alignment as a portion of a larger-scale project. The Bay Trail component (trail facility) of larger estimated project budget assumed to be 20% of total project cost. Private Land Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring shoreline public access. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category. Transportation Capital Project: The Bay Trail project cost assumed to be incorporated in Caltrans or other agency transportation capital investment as a non-motorized project share providing for bicycle and pedestrian access with a State Highway corridor. Such projects are not typically funded by the ABAG Bay Trail Project and are presented as a separate cost category.

Project Category		Gap Segment .ength (ft.)	Construction Cost	Construction, Design & Permitting		Clo	ass 1					Class 2					Class 3		Bridge			Boardwalk		F	encing and B	arrier		Trail Furnis	Design Cost	Environ	mental and Permitting
					A B		С	Х	А			С	Х		А	В		с	А	В		A	A	В	С	D	No Fence	% Basis	% Basis	~	B C
					LF LF \$ 63.86 \$	149 83	LF \$ 294.7	LF 7 \$ 24	LF 7 \$		LF 52.33	LF \$ 108	LF	2.67	LF \$	1.67 \$		LF \$ 5131	LF \$ 827	04 \$		LF \$ 927.34	LF \$19.67	LF \$ 14.50	LF \$ 20.05	LF 5 \$ 49.6		2% 2%	20%	5%	10% 25%
					ş 03.00 ş	147.05	ş 274./	/ p 2.0	" ¥	10.11	\$ 52.55	\$ 100.	9.7 <b>-</b> 1 -9	2.0/	*	1.07 \$	5.54	÷ 51.51	÷ 027.	.94 9		ş 727.3 <del>4</del>		\$ 14.50	÷ 23.35	, a 19.0.		2 /0			
4	9000.0	834.5	\$1,263,383	\$1,831,905																	834.5								\$252,677		\$315,846
4	9001.0	811.7	\$1,228,865	\$1,781,854															_		811.7								\$245,773		\$307,216
1	9002.0	16851.8	\$380,869	\$457,042																460							811.7	811.7	\$76,174		
1	9003.0	17141.7	\$2,568,357	\$3,338,864		17141.7																					811.7	811.7	\$513,671		\$256,836
1	9005.0	3636	\$331,891	\$398,269	3636															120							17141.7	17141.7	\$66,378		
1	9009.0	13038	\$2,672,222			13038															225			26076.	b		C	0	\$534,444		\$267,222
1	9011.0	961.4	\$163,218	\$236,666		961.4																	961.4					13038	\$32,644		\$40,805
1	9013.0	5374.2	\$1,662,079	\$2,410,014			537-	4.2																5374.	2		c	0	\$332,416		\$415,520
1	9015.0	9558.2	\$3,397,554	\$4,416,820			955														200			19116.			5374.2	5374.2			\$339,755
1	9022.0	6008.7	\$2,399,810	\$3,119,753			600	8./							_						300			12017.	4		9558.2	9558.2	\$479,962		\$239,981
1	9023.0	10176.9	\$936,741	\$1,170,926		6106.14									_		4070.76		-								6008.7	6008.7	\$187,348	\$46,837	
1	9024.0	7769	\$406,755	\$528,782							7769	7															10176.9	10176.9	\$81,351		\$40,676
1	9027.0	12790	\$1,103,512	\$1,434,565		4220.7									_		8569.3		_							8569	.3 7769	7769	\$220,702		\$110,351
1	9030.0	3335.7	\$500,044	\$625,055		3335.7																					12790	12790	\$100,009	\$25,002	
1	9032.0	5308.8	\$339,087	\$423,858	5308.8																						3335.7	3335.7	\$67,817	\$16,954	
1	9034.0	8790.2	\$561,448	\$701,810	8790.2																						5308.8	5308.8	\$112,290	\$28,072	
1	9035.0	6324.2	\$10,737	\$12,885												6324.2											8790.2	8790.2	\$2,147		
1	9036.0	4074.7	\$6,931	\$8,317												4074.7											6324.2	6324.2	\$1,386		
1	9037.0	2929	\$4,973	\$5,968												2929											4074.7	4074.7	\$995		
1	9038.0	6948.3	\$11,662	\$14,578												6948.3											2929	2929		\$583	
1	9038.1	3483.4	\$15,233	\$19,041											-	9038.1											6948.3	6948.3	\$3,047	\$762	
1	9039.0	3202.8	\$5,418	\$6,773												3202.8											3483.4	3483.4	\$1,084	\$271	
	9040.0	581.3	\$5,941	\$7,426					-	581.3					_												3202.8	3202.8	\$1,188	\$297	
1	9041.0	2690.6	\$263,771	\$329,714	2690.6				_						-								2690.6	2690.	5		581.3	581.3	\$52,754	\$13,189	<u>├───</u>
1	9042.0	1305.5	\$2,234	\$2,681					_						_	1305.5											2690.6	2690.6	\$447		
3	9043.0	1004.7	\$83,949	\$104,936	1004.7																		1004.7				1305.5	1305.5	\$16,790	\$4,197	
3	9043.1	1988.7	\$166,136	\$207,670	1988.7																		1988.7				1004.7	1004.7	\$33,227	\$8,307	

Marin County

 Project Clargery Legand

 Project Legand Ownership Development Project: The Bay Trail project cost assumed to be condition of development or subject to the Bay Conservation and Development Commission (BCDC) regulatory permitting process, requiring that there in provide a separate cost category.

 Project Legand Ownership Development Project: The Bay Trail Project and are presented on a separate cost category.

 Project Clargery Legand

 Project Legand Ownership Development Project: The Bay Trail Project and are presented on a separate cost category.

 Project Interproject have project to assumed to be horoported in Colman or other ogency transportation capitel investment as a non-motorized project share providing for bicycle and pedestrina access with a

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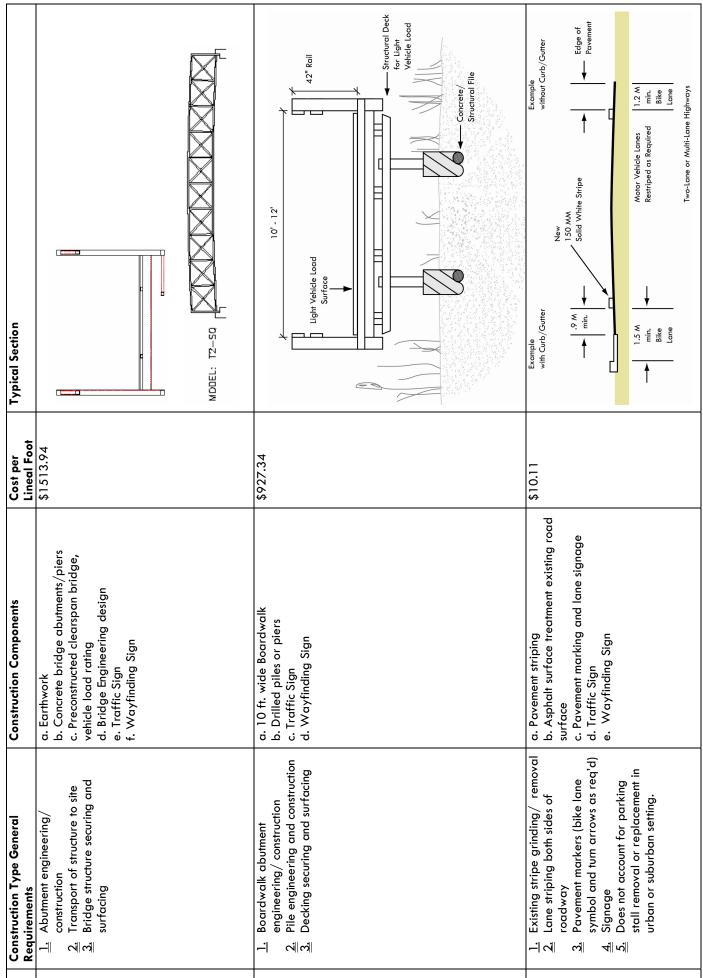
Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting																		
	Number			Permitting		Class 1				Class 2		Class 3		Bridge		Boardwalk		encing and Barrier		Design Cost	Environmental and	
					A B	C LF	X LF		B C	C X LF LF		B (	C LF	A B		A LF	A B LF LF	C D No Fence LF LF LF	% Basis 2%	% Basis 20%	A B 5% 10%	C % 25%
					\$ 63.86 \$ 149.83	3 \$ 294.77			\$ 52.33 \$				\$ 51.31	\$ 827.94 \$		\$ 927.34		\$ 29.95 \$ 49.62 \$ -	2%			
1	9043.2	7598.6	\$397,675	\$516,977	7				7598.6									1988.7	7 1988.7	\$79,535	\$39,767	7
1	9044.0	1341.5	\$2,392	\$2,871	1						1341.5							7598.0	5 7598.6	\$478		
1	9049.0	1621.4	\$158,973	\$198,716	<b>5</b> 1621.4												1621.4 1621.4	1341.5	5 1341.5	\$31,795	\$7,949	!
1	9055.0	1325.5	\$103,899	\$129,873	<b>3</b> 1325.5												1325.5	1621.4	4 1621.4	\$20,780	\$5,195	
4	9057.0	5308.8	\$4,989,283	\$7,234,460	<b>&gt;</b>	250	0								2808.8	3		151	1 151	\$997,857		\$1,247,321
1	9058.0	151	\$228,711	\$297,324	4										151	1		5308.8	5308.8	\$45,742	\$22,87	1
1	9061.0	1229.5	\$3,600,180	\$4,320,216	5													151	1 151	\$720,036		
1	9062.0	3182.1	\$634,694	\$825,103	3 3182	.1												3182.1 1229.5	5 1229.5	\$126,939	\$63,469	9
1	9063.0	6635.4	\$423,800	\$529,750	6635.4													3182.1	3182.1	\$84,760	\$21,190	
1	9063.1	1754.4	\$154,241	\$200,513	3 1454.4					300						-	1454.4	6635.4	4 6635.4	\$30,848	\$15,42	4
1	9064.0	2272.1	\$630,000	\$756,000	D													1754.4	4 1754.4	\$126,000		
1	9065.0	1306.2	\$161,022	\$209,328	В					1306.2							1 306.2	2 2272.1	2272.1	\$32,204	\$16,10	2
4	9066.0	12769.1	\$19,331,651	\$28,030,894	4										12769.1	1		(	0 0	\$3,866,330		\$4,832,913
1	9067.0	4099.3	\$342,670	\$445,471	4099.3												4099.3	12769.1	1 12769.1	\$68,534	\$34,26	7
1	9069.0	1182.6	\$200,000	\$260,000	b															\$40,000	\$20,000	0
1	9070.0	2438.6	\$4,000	\$5,200	<b>b</b>															\$800	\$400	0
1	9071.0	1812.7	\$271,646	\$353,139	1812.	.7												2438.0	5 2438.6	\$54,329	\$27,16	5
1	9072.0	2241.5	\$660,763	\$792,916	5	2241.	5											1812.7	7 1812.7	\$132,153		
1	9073.0	9528.9	\$388,157	\$504,604	4							4764.45	4764.45					2382.2 2241.5	5 2241.5	\$77,631	\$38,81	6
1	9074.0	3270.9	\$355,868	\$427,042	2					3270.9								9528.9	9 9528.9	\$71,174		
1	9075.0	1648	\$16,727	\$20,908	В			1648	3									3270.9	3270.9	\$3,345	\$836	
1	9079.0	735.3	\$46,989	\$58,737	735.3													1648	1648	\$9,398	\$2,349	
1	9080.0	2378.8	\$151,925	\$189,906	<b>5</b> 2378.8													735.3	3 735.3	\$30,385	\$7,596	
1	9082.0	23905.8	\$973,731	\$1,265,850	b							11952.9	11952.9	•				5976.5 2378.8	3 2378.8	\$194,746	\$97,373	3
1	9083.0	1085.8	\$2,291	\$2,864	4						1085.8							23905.8	3 23905.8	\$458	\$115	
1	9086.0	4699.6	\$7,870	\$9,838	В						4699.6							1085.8	1085.8	\$1,574	\$394	
1	9089.0	386.6	\$20,325	\$26,422	2				386.6									4699.0	6 4699.6	\$4,065	\$2,033	2
1	9090.0	528.5	\$51,809	\$64,761	528.5												528.5 528.5	5	0 0	\$10,362	\$2,590	
1	9092.0	7079.7	\$931,715	\$1,164,643	6208.	.7					871							528.5	5 528.5	\$186,343	\$46,586	
1	9093.0	1659.1	\$2,912	\$3,495	5						1659.1							7079.7	7 7079.7	\$582		
1	9095.0	2616.2	\$4,402	\$5,503	3						 2616.2							1659.1	1 1659.1	\$880	\$220	
1	9102.0	1980.5	\$3,360	\$4,200	þ						 1980.5							2616.2	2 2616.2	\$672	\$168	
1	9103.0	2171.5	\$3,666	\$4,583	3						 2171.5							1980.5	5 1980.5	\$733	\$183	
1	9104.0	3674.3	\$204,477	\$255,596	<b>5</b> 3112.3			562	2									2171.5	5 2171.5	\$40,895	\$10,224	
1	9105.0	2430.1	\$60,278	\$75,348	<b>B</b> 663			1767.1										3674.3	3 3674.3	\$12,056	\$3,014	
1	9107.0	1637.2	\$104,600	\$130,750	1637.2													2430.1	2430.1	\$20,920	\$5,230	
1	9108.0	1385.3	\$58,168	\$72,710	þ			692.65	5 692.65									300 1637.2	2 1637.2	\$11,634	\$2,908	

# **APPENDIX B: TRAIL COST DOCUMENTATION**

Facility Type	Rating	Construction Type	Construction Type General Requirements	Construction Components	Cost per Lineal Foot	Typical Section
Class I Multi-Use Trail	4	Trail – Level Paved Surface	<ul> <li><u>1.</u> Existing path, roadway or levee location requiring minor leveling/ grading</li> <li><u>2.</u> Aggregate Base and Paving for 12' trail width</li> </ul>	a. Earthwork b. Asphalt pavement with Aggregate Base 12 ft. wide c. Pavement striping d. Traffic Sign e. Wayfinding Sign	\$63.86	2' Poved 2' Gravel 2' Poved 2' Gravel Agregate Base Agregate Base vor. with
Class I Multi-Use Trail	۵	Trail – Moderate Hillside Location or Other Moderate Engineering Challenge for Implementation	<ol> <li>Grading to create trail bench w/ minor cut/fill</li> <li>Aggregate Base and Paving for 12' trail width</li> <li>Drainage as required.</li> </ol>	a. Earthwork b. Engineered Fill c. Asphalt pavement with Aggregate Base 12 ft. wide d. pavement striping d. pavement striping e. 24" or less retaining wall f. Traffic Sign g. Wayfinding Sign	\$149.83	Froid Froid Common Froid Common Froid Froid Common State Common State State Common State State Common State Common State Common State State Common State Common State State Common State
Class I Multi-Use Trail	υ	Trail – Difficult Hillside Location or Other Complex Engineering Challenge for Implementation	<ol> <li>Grading to create trail bench w/ substantial cut and/or cut/fill</li> <li>Retaining walls, structure, or piles required</li> <li>Aggregate Base and Paving for 12' trail width</li> <li>Drainage as required.</li> <li>NOTES: Structural solutions cost minimum \$50 per Sq. Ft. It is assumed that for any given segment, no greater than 50% of the total length classified as "C" will require structural solutions.</li> </ol>	a. Earthwork b. Engineered Fill c Asphalt pavement with Aggregate Base 12 ft. wide d. Pavement striping d. Pavement striping e. 4 ft. Engineered retaining wall f. Traffic Sign g. Wayfinding Sign	\$294.77	Frain 2 10-12 Poved Frain 6 H. 3 m. Doved Frainer a Agreepte Base or required a complex of the frainer a complex of th
Class I Multi-Use Trail	×	Existing multi-use trail requiring minimal improvement to upgrade to regional trail	<u>1.</u> Bay Trail identifying signage	a. signage installation b. trail inspection	\$2.67	N/A
Trail Bridge	٩	Bridge- Prefabricated Structure Pedestrian/Bicycle Load Only	<ul> <li><u>1.</u> Abutment engineering/ construction</li> <li><u>2.</u> Transport of structure to site</li> <li><u>3.</u> Bridge structure securing and surfacing</li> </ul>	a. Earthwork b. Concrete bridge abutments/piers c. Preconstructed clearspan bridge, pedestrian rating d. Bridge Engineering design e. Traffic Sign f. Wayfinding Sign	\$827.94	Section MoDEL: T2-SG

# Appendix B: Trail Cost Documentation

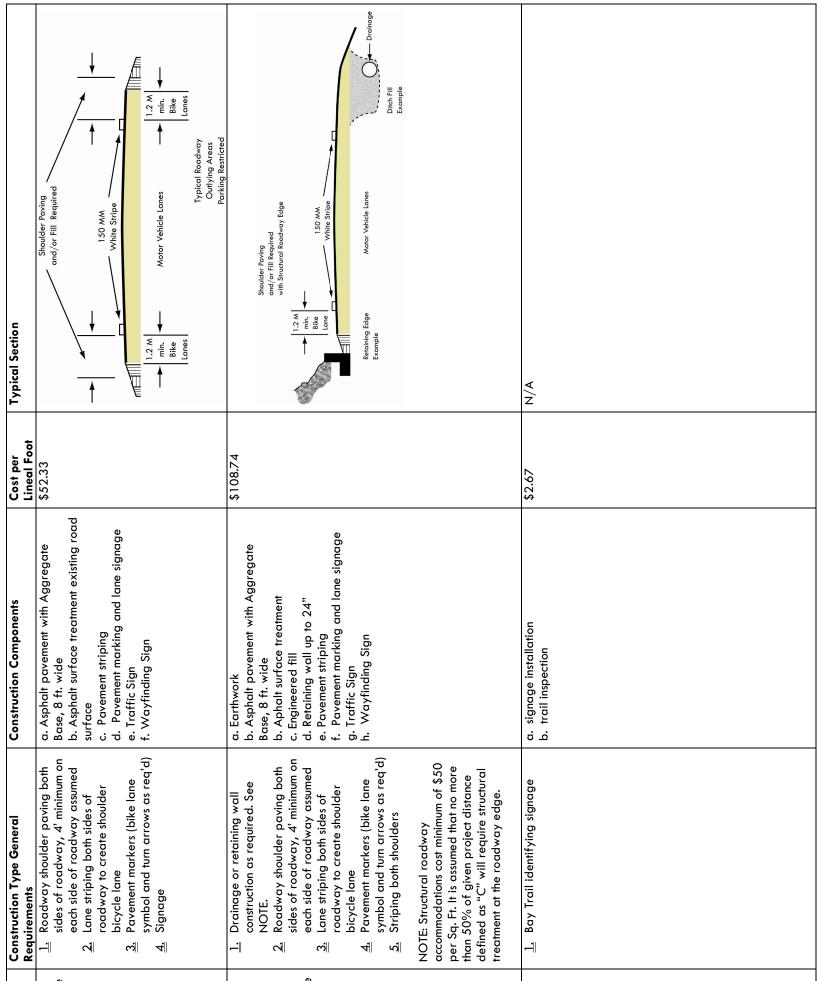
# The San Francisco Bay Trail Project Gap Analysis Study



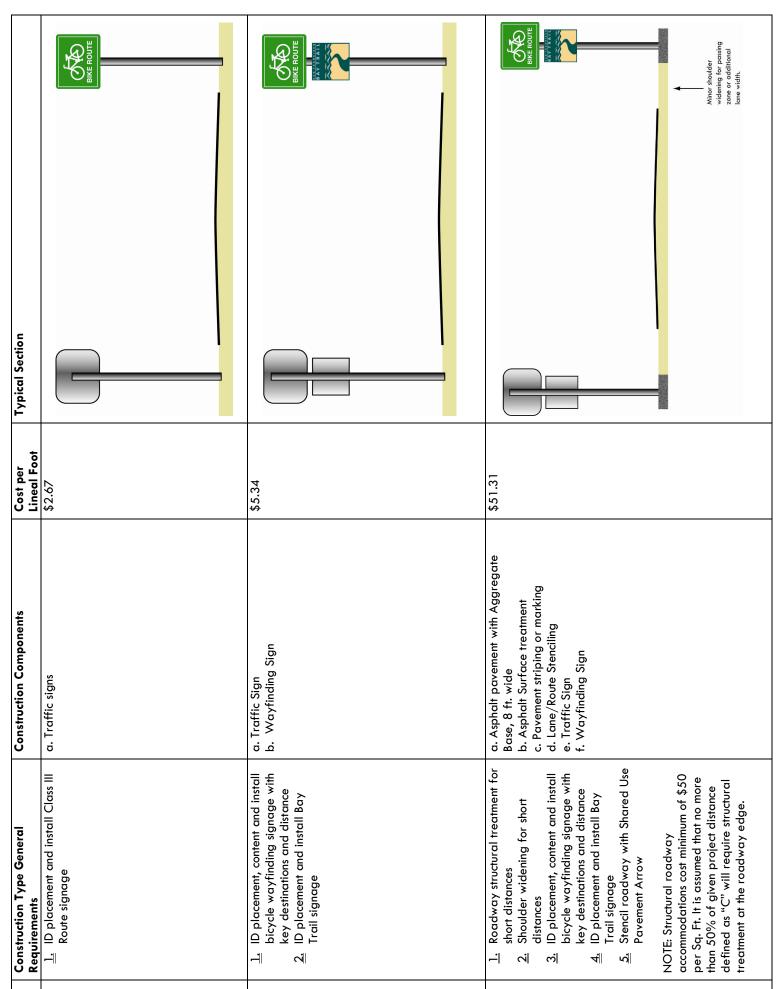
Construction Type	Bridge – Prefabricated Structure Light Vehicle/Maintenance Load	10 ft. wide Boardwalk- Structure Pedestrian/Bicycle Load Only	Vehicle travel lane narrowing through re- striping of existing roadway surface to accommodate Caltrans minimum or greater width Class II bicycle lanes , applicable to urban or suburban streets or outlying roadways with existing paved shoulder.
Rating	Δ	4	٩
Facility Type	Trail Bridge	Trail Boardwalk	Class II Bicycle Lane

# **Appendix B: Trail Cost Documentation**

The San Francisco Bay Trail Project Gap Analysis Study



Construction Type	Roadway widening of shoulder edge to create additional roadway width sufficient to accommodate Class II bicycle lanes	Roadway widening including drainage channel fill, retaining wall, or other structural to obtain additional width for Class II bicycle lanes.	Existing multi-use trail requiring minimal improvement to upgrade to regional trail
Rating	Ω	U	×
Facility Type	Class II Bicycle Lane	Class II Bicycle Lane	Class II Bicycle Lane



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Construction Type	Caltrans Class III Signage Minimum	Bicycle Wayfinding Signage (e.g. San Francisco, Marin)	Sliver fill on rural roadway with topographic or other constraints to create periodic bicycle pull outs, uphill shoulder segments, or other bicycle safety improvement strategy
Rating	∢	۵	U
Facility Type	Class III Bicycle Route	Class III Bicycle Route	Class III Bicycle Route

Facility Type	Rating	Construction Type	Construction Type General Requirements		Cost per Lineal Foot	Typical Section
Fencing	∢	Habitat Protective Fencing	<u>1.</u> 4' wood post and grid wire construction	a. Construct 4 ft. wood and wire fence b. Emergency gate every 100 ft.	\$19.67	
Fencing	۵	Roadway Barrier/Separator	1. 3' bollard/post and cable	le fence	\$14.50	Cable Cable 42"
Fencing	υ	Security Fencing	<ol> <li>6' Min. cyclone/ chainlink fencing</li> <li>Support posts and gate as required</li> </ol>	a. Construct 6 ft. chain link fence b. Emergency Access Gate every 1000 ft.	\$29.95	
Trail Furnishings and Landscaping	۷	Bench Trash Receptacle Bicycle Rack Picnic table Landscaping Irrigation Erosion Control	$\underline{1}$ . Install site furnishings	SO	2% of Project Base Cost	N/A
Design Cost		Engineering design for all facilities associated with subject segment		a. Engineering design b. Construction management and observation	20% project construction budget	N/A
Environmental Cost	<	Low Sensitivity - Environmental review and permitting/ clearances for	<u>1.</u> 5% of total project cost for Checklist/IS		5% project construction budget	A/A

# Appendix B: Trail Cost Documentation

The San Francisco Bay Trail Project Gap Analysis Study

Facility Type	Rating	Construction Type	Construction Type General Requirements	Construction Components	Cost per Lineal Foot	Typical Section
Environmental Cost	а	Moderate Sensitivity - Environmental review and permitting/ clearances	2. 10% of total project cost for IS/MND or focused EIR	<ul> <li>a. CEQA Initial Study Checklist</li> <li>b. Focused analysis of some issues</li> <li>c. Permitting assistance</li> <li>d. Mitigated Negative</li> <li>Declaration/Focused EIR completion</li> </ul>	10% project construction budget	N/A
Environmental Cost	υ	High Sensitivity - Environmental review and permitting/ clearances	<ul> <li>3. 15% of total project cost of facilities for complete EIR</li> </ul>	<ul> <li>a. CEQA Initial Study Checklist</li> <li>b. Focused analysis of major issues</li> <li>c. Agency coordination</li> <li>d. Complex permitting issues</li> <li>e. Mitigation and Monitoring Program</li> <li>f. Post Construction</li> <li>observation/monitoring</li> </ul>	25% project construction budget	A/A
NOTES: 1. Project costs were cal total project cost. Other stabilization, wetland mi 2. For cost determination	were calculated based on existing project studies, Mean's Construction Costs, CalTrans data, Ace, Bay Trail Fe t. Other cost items are based on an average of current costs for each construction component for the type of stland mitigation, culvert and drainage systems, urban design elements, lighting, play components, artwork an rmination using cost estimating handbooks and databases, engineers did not use average cost, but estimated	d on existing project studies e based on an average of c ert and drainage systems, u stimating handbooks and dc	NOTES: 1. Project costs were calculated based on existing project studies, Mean's Construction Costs, CalTrans data, Ace, Bay Trail Feasibility stud total project cost. Other cost items are based on an average of current costs for each construction component for the type of trail to be bu stabilization, wetland mitigation, culvert and drainage systems, urban design elements, lighting, play components, artwork and other uniqu 2. For cost determination using cost estimating handbooks and databases, engineers did not use average cost, but estimated probable cos	NOTES: 1. Project costs were calculated based on existing project studies, Mean's Construction Costs, CalTrans data, Ace, Bay Trail Feasibility studies, and recent trail installation projects. For lump sum items, a percentag total project costs were calculated based on existing project studies, Mean's Construction component for the type of trail to be built. Individual project components such as structural walls, access ramps, total project cost. Other cost items are based on an average of current costs for each construction component for the type of trail to be built. Individual project components such as structural walls, access ramps, stabilization, wetland mitigation, culvert and drainage systems, urban design elements, lighting, play components, artwork and other unique project items are not included in this estimate and would be identified 2. For cost determination using cost estimating handbooks and databases, engineers did not use average cost, but estimated probable cost based on geographic variables and Bay area construction experience.	ent trail installation al project componen ems are not included geographic variable	NOTES: I. Project costs were calculated based on existing project studies, Mean's Construction Costs, CalTrans data, Ace, Bay Trail Feasibility studies, and recent trail installation projects. For lump sum items, a percentage cost was assigned relative to oral project costs were calculated based on an average of current costs for each consponent for the type of trail to be built. Individual project components such as structural walls, access ramps, concrete sidewalks and stairs, bank tabilization, wetland mitigation, culvert and drainage systems, urban design elements, lighting, play components, artwork and other unique project items are not included in this estimate and would be identified on an individual basis. Create determination using cost estimating handbooks and databases, engineers did not use average cost, but estimated probable cost based on geographic variables and Bay area construction experience.

B-6

# **Appendix B: Trail Cost Documentation**

3. Cost database references used: RS Means Site Work and Landscape Cost Data 2005, 24th annual edition; Architects Contractors Engineers Guide to Construction Costs, 2004 Edition, Volume 35; and <a href="http://www.dot.ca.gov/hg/esc/oe/awards/2004CCDB/2004ccdb.pdf">http://www.dot.ca.gov/hg/esc/oe/awards/2004CCDB/2004ccdb.pdf</a> (State of California, Business, Transportation, and Housing Division, Department of Transportation Contract Cost Data 2004.

4. Bay Trail costs are based on average of costs of projects identified in Bay Trail Feasibility Studies.

# **APPENDIX C: IMPLEMENTATION RANKING**

OVERALL CRITERIA	SUB-CRITERION	POINTS	DEFINITION OF IMPLEMENTATION PRIORITY RANKING CRITERIA
Critical Bay Trail Link		13	
			Gap closure that creates the greatest amount of continuous miles of Bay Trail receives highest points.
			<ul> <li>New segments closing gaps between existing longer segments receive highest points from 5 to 6 points.</li> </ul>
			<ul> <li>New segments closing gaps between existing shorter segments or establishing new Bay Trail in an undeveloped geographic region of the Bay Trail system receives 3 to 4 points.</li> </ul>
	Distance of Continuity	6	<ul> <li>New segment that adds distance at one end of existing segment without closing gap, receives 1 to 3 points.</li> </ul>
			Priority given to completing all Class I segments prior to competitive funds spent on Class II and III.
			<ul> <li>Continuous Class I segment receives up to 4 points;</li> <li>Gap segments with mixed Class I and Class II opportunities receives 4 points;</li> </ul>
			<ul> <li>Class II receives up to 2 points if no feasible Class I exists, and,</li> </ul>
	Trail classification (I, II, III)	4	<ul> <li>Class III receives a maximum of 1 point if adequate lane width exists.</li> </ul>
			Segments providing trail users with the greatest opportunity for shoreline exposure and experience receive greatest points.
			<ul> <li>Segment providing an trail experience adjacent to shoreline with appealing natural or urban views receives 3 points;</li> </ul>
			<ul> <li>Segment providing views of shoreline or Bay environment but no direct, adjacent experience receives 1 to 2 points</li> </ul>
	Shoreline experience/Proximity to Bay	3	<ul> <li>Segment that does not provide shoreline experience or views receives no points under this criterion.</li> </ul>
Regional Need/Connections		2	
			Segments already supported by local general or master plans, or by existing agency plans (such as BCDC plans for shoreline access), will rank more favorably.
	Support in local		<ul> <li>Segments with known plan support receive 1 to 2 points, depending on force of document; legislatively approved documents receive greater points.</li> </ul>
	general or master plans	2	<ul> <li>Segments with no known adopted plan support receive no points under this criterion.</li> </ul>

Project			
Readiness		12	
			<ul> <li>Highest points awarded to projects that have certified, completed environmental review, and have permits completed and/or identified with preliminary agency consultations completed receive 4 points.</li> <li>Projects with limited permitting requirements and environmental</li> </ul>
			<ul> <li>review in process with limited environmental consequences receive 3 points.</li> <li>Projects with substantial permitting and environmental review requirements but with clear beneficial mitigation opportunities receive 2 points</li> </ul>
	Degree of environmental impact/regulatory context	4	<ul> <li>Projects with substantial permitting and environmental review requirements and high cost or offsite mitigation only receive 1 point.</li> </ul>
			Segments with property ownership or control that has been previously identified as amenable to Bay Trail alignment and construction across the property shall be given preferential ranking.
			<ul> <li>Segments located on publicly owned land designated for recreational access such as park, open space, etc. or and publicly owned easement on private land receives 4 points</li> </ul>
			<ul> <li>Segments located on publicly owned land designated for wildlife habitat or other protected purpose receives 3 points if balancing of management goals is required</li> </ul>
			<ul> <li>Segments located on private property with identified but not publicly-owned easement receives 2 points</li> </ul>
	Status of property		<ul> <li>Segments on known restricted private or public lands where feasibility of access is unknown but believed possible receive 1 point.</li> </ul>
	control/ownership	4	
			Overall construction type is identified and documented as feasible from an engineering and cost standpoint for the subject area.
			<ul> <li>Feasibility study documented construction strategy and documented costs receives 4 points</li> </ul>
			<ul> <li>Feasibility study documented construction type with no cost estimates receives 3 points</li> </ul>
	Preliminary		Assumed ease of construction/ feasible construction type receives 2 points
	design/needs identified	4	<ul> <li>Assumed difficulty of construction including engineering and potential unknown construction obstacles receives 1 point.</li> </ul>
Cost		13	
	Cost effectiveness of project	13	<ul> <li>Projects with low average cost per lineal foot and significant overall benefit receive highest points, 10 to 13.</li> </ul>
			<ul> <li>Projects with mid-level average cost per lineal foot or high cost and significant overall benefit receive medium points, 6 to 9.</li> </ul>
			<ul> <li>Projects with mid-level average cost per lineal and fewer defined project benefits, receives lower points, 3 to 5.</li> </ul>
			<ul> <li>Projects with high average cost per lineal foot and fewer defined project benefits, receives lowest points, 0 to 2.</li> </ul>
	TOTAL POINTS	40	

## San Francisco County Implementation Ranking

NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

Poin	t Rang	ge						TOTAL	RANK	Project	Gap	Gap Segment	Construction	Construction,	Cost per Mile
6	4	3	2	4	4	4	13	40		Category	Segment	Length (ft.)	Cost	Design &	Construction,
Crite	eria										Number			Permitting	Design &
Distance of Continuity	Trail Classification (I,II,I	Shoreline Experience	Support in Local Plan	Degree of Environmenta Impact/ Regulatory Contex	Status of Property Control Ownership	Preliminary Design Identifie	Cost Effectiveness								
3	2	3	2	3	4	4	10	31	3	4	1001.0	1900.5	\$19,252	\$24,065	\$66,858
3	2	0	1	2	3	2	10	23	7	1	1002.0	2795.3	\$146,366	\$182,957	\$345,585
6	2	2	2	3	4	1	10	30	3	1	1005.0	1795.7	\$94,005	\$117,506	\$345,510
5	3	2	2	3	4	4	12	35	1	1	1006.0	1178.9	\$49,585	\$61,981	\$277,596
4	3	0	2	3	4	4	12	32	2	1	1008.0	880.3	\$37,025	\$46,282	\$277,596
3	2	2	1	1	1	1	2	13	13	4	1009.0	15327.2	\$160,000,000	\$192,000,000	\$66,141,239
2	1	0	1	2	1	1	2	10	14	1	1013.0	320.3	\$484,921	\$703,136	\$11,590,878
4	3	3	1	3	3	2	8	27	5	1	1020.0	3902.4	\$584,775	\$730,968	\$989,010
0	1	3	2	3	2	1	4	16	11	1	1024.0	9668.1	\$51,821	\$64,776	\$35,376
3	4	1	1	2	2	1	7	21	8	4	1025.0	1093.1	\$171,726	\$223,244	\$1,078,334
1	4	3	2	3	3	3	6	25	5	1	1026.0	4206	\$691,256	\$898,633	\$1,128,098
3	4	1	1	1	1	1	8	20	9	3	1027.0	23272.8	\$1,486,666	\$1,858,333	\$421,608
0	2	0	1	3	2	1	7	16	11	1	1028.0		1 - 1	\$68,150	\$66,858
2	4	3	2	3	3	3	4	24	6	1	1029.0	3934.3	\$666,943	\$833,678	\$1,118,832
2	4	0	1	3	2	1	5	18	10	1	1032.0	1280.8	\$284,747	\$355,934	\$1,467,312

# San Mateo County Implementation Ranking NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate

details and project category definitions.

										Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction,
Poin	t Rang	e						TOTAL	RANK		Number			, i j	Design &
6	4	3	2	4	4	4	13	40							Permitting
Crite	eria														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
5	4	2	2	3	4	2	6	28	1	1	2000.0	450.4	\$28,772	\$35,964	
4	4	1	1	2	1	1	8	22	17	3			\$516,054		\$517,308
5	3	3	1	2	1	1	8	24	13	3			\$143,686		
4	4	3	2	2	2	2	4	23	16	3	·		\$887,260		
4	3	3	1	2	1	1	7	22	17	3	-		\$65,698		
5	4	3	1	1	2	1	2	19	22	1	2018.0		\$316,965	\$412,055	
2	2	0	1	2	2	2	3	14	39	1	2019.0	1486.7	\$77,829	\$97,286	\$345,510
1	2	2	1	2	2	2	3	15	36	1	2020.0	1478.6	\$62,190	\$77,737	\$277,596
1	2	0	1	2	2	2	3	13	45	1	2022.0		\$63,391	\$79,238	
1	4	0	1	1	2	1	5	15	36	1	2023.0		\$251,042	\$313,803	\$619,278
1	4	0	1	1	1	1	8	17	27	1	2024.0	3127.2	\$199,711	\$249,639	\$421,493
1	2	0	1	1	2	2	9	18	25	1	2025.0	1940.1	\$101,564	\$126,955	\$345,510
1	4	0	1	1	1	1	5	14	39	I	2026.0	3770.6	\$336,937	\$421,171	\$589,769
1	2	0	1	2	2	1	5	14	39	1	2027.0	7469.7	\$75,668	\$94,585	\$66,858
1	2	0	1	2	2	1	5	14	39	1	2028.0	5477.7	\$55,489	\$69,361	\$66,858
1	2	0	2	2	3	3	4	17	27	4	2029.0	3832.7	\$405,280	\$486,336	\$669,986
1	2	0	1	2	2	1	5	14	39	1	2030.0	2292.2	\$23,220	\$29,025	\$66,858
1	4	0	1	1	1	1	7	16	32	1	2031.0	2406.6	\$188,629	\$235,787	\$517,308
1	3	0	1	1	1	2	10	19	22	1	2034.0	653.4	\$33,653	\$43,749	
3	4	0	1	3	3	2	1	17	27	4	2035.0	2755.2	\$948,918	\$1,186,148	\$2,273,106
1	2	0	2	3	3	3	2	16	32	4	2036.0	3738.6	\$405,280	\$486,336	\$686,849
3	4	2	1	2	1	1	1	15	36	4	2038.0	22620.4	\$34,246,381	\$49,657,252	\$11,590,878
3	4	3	1	2	1	1	2	17	27	3	2039.0	519.9	\$127,583	\$165,858	\$1,684,425
1	4	3	1	2	1	1	3	16	32	3		499	\$74,775	•	
1	4	3	1	2	1	1	8	21	20		2041.0		\$144,440		\$989,010
1	3	3	1	2	1	1	5	17	27		2042.0		\$55,933		
4	2	3	1	2	1	1	5	19	22		2047.0	625.3	\$39,944		

Poir	it Rang	e						TOTAL	RANK	Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design &
6	4	3	2	4	4	4	13	40							Permitting
Crite	eria														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
2	4	3	1	1	1	1	1	14	39	3	2048.0	326.2	\$95,248	\$119,060	\$1,927,153
3	4	3	2	2	4	3	9	30	4	1	2049.0	447	\$28,554	\$35,693	\$421,608
3	4	3	1	2	1	1	3	18	25	3	2051.0	426	\$63,836	\$79,795	\$989,010
1	4	0	2	2	4	4	7	24	13	1	2056.0	1007.6	\$150,989	\$188,736	\$989,010
5	4	1	1	2	4	3	7	27	9	1	2057.0	1009.2	\$373,329	\$466,661	\$2,441,507
1	4	2	2	3	4	4	12	32	2	1	2058.0	670.2	\$42,812	\$53,515	
1	4	0	2	3	4	4	12	30	4	1	2059.0	858.7	\$128,676	\$160,845	\$989,010
2	4	3	2	3	4	4	12	34	1	1	2060.0	748.7	\$47,827	\$59,784	\$421,608
1	4	0	2	3	4	4	10	28	8	1	2061.0	1064.7	\$159,545	\$199,432	\$989,010
1	4	0	2	3	4	4	12	30	4	1	2062.0	1655.6	\$105,760	\$132,200	\$421,608
3	4	0	2	3	4	4	12	32	2	1	2063.0	667.8	\$42,659	\$53,324	\$421,608
6	4	3	0	3	3	4	3	26	10	1	2079.0	4465.1	\$1,754,789	• • • •	
2	4	3	1	1	2	4	5	22	17	1	2083.0	2466.7	\$157,573	\$189,087	\$404,744
1	4	3	1	3	2	2	5	21	20	1	2085.0	1541.8	\$261,366		
1	4	2	0	2	2	1	4	16	32	1	2087.0	2455	\$723,709	• • • •	
2	2	0	0	2	2	1	4	13	45	1	2088.0	1929.7	\$19,548	• •	
5	4	3	1	1	2	1	7	24	13	1	2089.0	10724.1	\$1,832,881	\$2,657,677	\$1,308,505
3	3	2	2	3	4	4	8	29	7	1	2091.0	1863.1	\$250,000	\$300,000	
2	4	2	2	3	4	4	4	25	12	1	2092.0	3024.7	\$2,303,490	• • •	
3	4	2	2	2	3	4	6	26	10	1	2096.0	1804.3	\$305,865	\$443,504	\$1,297,845

Santa Clara County Implementation Ranking NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

Poir	nt Rar	nge						TOTAL	RANK	Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design &
6	4	3	2	4	4	4	13	40							Permitting
Crite	eria														-
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
1	4	3	1	1	1	1	5	17	13	3		19237.4	1 1		
3	2	0	1	3	3	2	7	21	10	1	3004.0		\$12,388		
1	4	2	1	2	2	2	5	19	12	1	3011.0	16380.4	\$2,454,275	\$3,558,699	\$1,147,098
1	3	0	2	3	3	4	8	24	4	1	3014.0	9431.1	\$348,998	\$453,697	\$254,002
1	4	2	2	3	3	4	5	24	4	1	3017.0	1636.8	\$249,645	\$324,538	\$1,046,897
1	4	1	2	2	2	4	5	21	10	1	3020.0	4277	\$640,823	\$833,070	\$1,028,433
3	4	0	2	2	3	4	7	25	3	1	3021.0	3786.3	\$241,793	\$290,152	\$404,617
3	4	0	1	3	3	1	8	23	7	1	3021.1	2406.2	\$153,708	\$192,135	\$421,608
1	2	0	1	3	3	1	4	15	16	1	3023.0	3578.3	\$187,324	\$234,155	\$345,510
1	4	0	2	2	2	2	1	14	18	1	3024.0	3727.9	\$1,207,057	\$1,508,821	\$2,137,014
3	2	1	2	3	3	4	10	28	1	1	3025.0	2252.3	\$22,816	\$29,661	\$69,532
1	4	2	2	2	2	2	1	16	14	1	3026.0	2095.5	\$678,502	\$848,127	\$2,137,014
3	4	0	2	2	2	2	1	16	14	1	3027.0	1930.4	\$625,044	\$781,305	\$2,137,014
1	4	0	2	3	3	4	10	27	2	1	3028.0	3460.9	\$221,013	\$276,266	\$421,476
3	4	3	2	2	2	2	6	24	4	1	3029.0	4464.7	\$798,512	\$998,139	\$1,180,410
1	4	0	2	2	1	2	1	13	19	1	3031.0	1835.4	\$594,284	\$742,855	\$2,137,014
5	4	1	2	3	3	4	1	23	7	1	3033.0	8365.2	\$3,300,000	\$4,290,000	\$2,707,789
2	4	1	2	1	3	4	6	23	7	1	3034.0	4287	\$241,165	\$313,515	\$386,134
5	2	1	1	2	2	1	1	15	16	1	3035.0	6558.9	\$2,300,000	\$3,335,000	\$2,684,718

# Alameda County Implementation Ranking NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost

estimate details and project category definitions.

										Project	Gap	Gap Segment	Construction Cost	Construction,	Cost per Mile
										Category	Segment	Length (ft.)		Design & Permitting	Construction, Design
Point	_				_			TOTAL	RANK		Number				& Permitting
6 Criter	4	3	2	4	4	4	13	40							
Critter	ia														
Distance of Continuity	Trail Classification (1,11,11)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
1	3	0	2	3	2	2	2	15	69	3		481.2	\$728,518		
3	3	1	2	3	2	2	5	21	53	3	4001.0	3631.9	\$232,006	1 1	
3	2	0	1	2	3	2	6	19	61	1	4003.0	5967.7	\$60,333		
1	4	0	1	3	2	2	5	18	64	3	4005.0	14166.6	\$904,962	1 1 1	
1	4	0	1	1	2	1	4	14	70	1	4006.0	18532.8	\$5,463,284		
1	4	0	1	2	2	1	7	18	64	1	4007.0	2632.1	\$168,139	1 1	
3	4	0	1	2	4	2	11	27	17	1	4008.0	6118.4	\$16,458		
1	4	1	1	1	1	2	2	13	71	1	4011.0	15470.4	\$4,560,519	\$5,928,675	\$2,023,439
1	2	0	1	1	1	2	5	13	71	1	4012.0	5808	\$58,835		
1	2	0	1	1	1	2	5	13	71	1	4013.0	3590.4	\$36,371	\$47,282	\$69,532
1	2	0	1	2	3	2	5	16	68	1	4015.0	3854.4	\$39,045	\$50,759	\$69,532
2	2	0	1	2	3	2	5	17	66	1	4016.0	6019.2	\$60,974	\$76,218	\$66,858
6	1	0	1	3	4	3	13	31	5	1	4022.0	11880	\$20,077	\$25,097	\$11,154
6	1	0	1	1	4	2	13	28	13	1	4028.0	12988.8	\$21,951	\$27,439	\$11,154
3	4	2	2	2	3	2	5	23	36	1	4029.0	23390.4	\$1,494,179	\$2,166,559	\$489,065
3	2	2	1	1	1	1	2	13	71	4	4032.0	19008	\$28,777,352	\$41,727,160	\$11,590,878
3	2	0	1	2	3	2	10	23	36	1	4034.0	14216.3	\$38,242	\$47,802	\$17,754
3	2	1	1	2	3	3	8	23	36	1	4044.0	2217.6	\$22,464	\$28,080	\$66,858
1	4	3	1	2	3	3	6	23	36	1	4045.0	2640	\$168,643	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	\$421,608
1	2	0	1	2	4	3	9	22	47	1	4046.0	3220.8	\$8,664	\$10,830	\$17,754
6	4	3	2	4	3	4	13	39	1	1	4049.0	897.6	\$2,188,000	\$2,188,000	\$12,870,588
5	3	2	1	2	1	1	8	23	36	4	4053.0	6758.4	\$735,044	\$918,804	\$717,816
5	3	3	1	2	1	1	6	22	47	4	4057.0	3273.6	\$965,025	\$1,206,281	\$1,945,614
6	4	3	1	2	2	2	12	32	4	1	4062.0	2798.4	\$419,340	\$524,175	\$989,010
6	3	0	1	2	3	4	7	26	22	2	4063.0	1108.8	\$70,808	\$88,510	\$421,476
5	4	3	2	2	3	4	4	27	17		4069.0	739.2	\$400,000	\$500,000	\$3,571,429

										Project	Gap	Gap Segment	Construction Cost	Construction,	Cost per Mile
										Category	Segment	Length (ft.)		Design & Permitting	
Point	Ran	-						TOTAL	RANK		Number	-			& Permitting
6	4	3	2	4	4	4	13	40							
Criter	ria														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
2	4	0	2	2	3	4	2	19	61	2	-	81.3	\$292,703	\$365,879	
1	3	3	1	3	3	2	8	24	30	1	4072.0	3537.6	\$185,669		\$346,398
1	4	3	2	2	2	4	3	21	53	2	4075.0	897.6	\$264,586		
1	4	3	2	1	3	4	5	23	36	2	4077.0	475.2	\$372,408	\$465,510	\$5,172,333
3	4	3	2	2	3	4	6	27	17	2	4078.0	792	\$48,380	\$60,475	\$403,167
5	3	0	2	2	3	4	10	29	9	2	4080.0	7708.8	\$12,999	\$16,249	\$11,129
2	4	1	2	2	3	4	1	19	61	2	4081.0	95.4	\$284,506	\$284,506	\$15,746,266
2	4	3	2	2	3	4	3	23	36	2	4082.0	316.8	\$31,251	\$39,064	\$651,058
1	4	3	2	2	3	4	1	20	56	2	4083.0	83.6	\$847,216	\$1,059,020	\$66,885,474
1	4	3	1	3	3	4	5	24	30	2	4084.0	739.2	\$58,042	\$72,553	\$518,232
1	2	1	1	3	3	2	10	23	36	1	4085.0	792	\$8,023	\$10,029	\$66,858
1	4	3	2	2	3	4	4	23	36	2	4086.0	413.7	\$125,467	\$156,834	\$2,001,646
1	4	3	2	2	3	4	1	20	56	2	4087.0	78.4	\$161,628	\$202,035	\$13,606,456
1	4	3	1	2	2	2	2	17	66	3	4089.0	950.4	\$280,168	\$350,211	\$1,945,614
6	2	0	2	3	4	3	13	33	2	1	4090.0	2956.8	\$29,952	\$37,440	\$66,858
2	4	1	2	3	4	3	5	24	30	1	4091.0	1584	\$101,186	\$126,482	\$421,608
1	4	3	2	2	3	4	3	22	47	2	4092.0	114.2	\$113,341	\$141,677	\$6,550,379
1	4	3	2	2	3	4	1	20	56	2	4093.0	99.3	\$302,240	\$377,800	\$20,088,459
1	4	3	2	2	3	4	2	21	53	2	4094.0	950.4	\$809,325	\$1,011,656	\$5,620,310
2	4	3	2	2	3	4	4	24	30	2	4096.0	739.2	\$469,999	\$587,499	\$4,196,421
6	4	0	2	2	3	4	12	33	2		4100.0	2798.4	\$6,178	\$7,722	\$14,570
2	4	3	2	3	3	4	3	24	30		4104.0	528	\$221,365	\$265,638	\$2,656,382
1	4	0	2	3	4	4	4	22	47		4105.0	4276.8	\$667,269	\$834,086	\$1,029,736
1	4	0	2	3	4	4	4	22	47		4106.0	475.2	\$30,650	-	
4	4	3	2	3	3	4	3	26	22		4107.0	844.8	\$151,711	\$182,053	
5	4	0	2	2	4	4	5	26	22			4329.6	\$374,676		
5	4	3	2	3	3	4	5	20	9		4116.0	1267.2	\$445,473		
3	4	0	1	3	4	2	6	27	36	1	4117.0	2217.6	\$116,091	\$145,114	
2	4	3	2	2	3	4	2	23	47		4118.0	297.7	\$226,552	\$226,552	
2	4	0	1	3	4	1	2	27	17		4120.0	1108.8	\$70,830		
5	4	U		ാ	4	1	У	27	17	I I	4120.0	1100.0	<i>φ</i> , 0,830	φ08,030	φ-21,00

										Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design
Point	Rang	je						TOTAL	RANK	Calegory	Number	Lengm (n.)		Design & Fermining	& Permitting
6	4	3	2	4	4	4	13	40							-
Criter	ia														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
1	4	3	2	2	3	4	4	23	36	2	4122.0	5596.8	\$2,000,000	\$2,400,000	\$2,264,151
3	4	3	2	2	3	4	3	24	30	2	4125.0	2798.4	\$1,503,317	\$1,803,981	\$3,403,737
3	4	2	1	1	2	1	12	26	22	1	4126.0	2323.2	\$6,249	\$7,499	\$17,044
6	2	0	1	1	2	1	12	25	26	1	4132.0	11510.4	\$1,173,715	\$1,408,459	\$646,082
6	2	0	1	1	2	1	12	25	26	1	4142.0	12302.4	\$1,254,476	\$1,630,818	\$699,922
6	2	0	1	2	2	1	13	27	17	1	4143.0	897.6	\$9,093	\$11,366	\$66,858
5	3	0	1	2	1	1	7	20	56	4	4146.0	1214.4	\$63,574	\$79,467	\$345,510
5	3	0	1	2	2	1	6	20	56	4	4147.0	844.8	\$249,039	\$311,298	\$1,945,614
2	4	3	2	3	4	4	7	29	9	1	4151.0	897.6	\$261,736	\$314,083	\$1,847,548
1	4	3	2	3	4	4	7	28	13	1	4152.0	844.8	\$246,340	\$295,608	\$1,847,548
1	4	3	2	3	4	4	7	28	13	1	4155.0	1636.8	\$477,283	\$572,740	\$1,847,548
1	4	3	2	3	4	4	7	28	13	1	4156.0	1214.4	\$354,113	\$424,936	\$1,847,548
1	4	3	3	3	4	4	7	29	9	1	4157.0	950.4	\$277,132	\$332,559	\$1,847,548
3	4	3	2	3	4	4	7	30	7	1	4158.0	1742.4	\$508,076	\$609,691	\$1,847,548
3	4	3	2	3	4	4	7	30	7	1	4159.0	2164.8	\$631,246	\$757,495	\$1,847,548
3	4	3	2	2	1	2	8	25	26	3	4163.0	2006.4	\$128,169	\$153,803	\$404,744
3	4	3	2	2	1	2	8	25	26	3	4164.0	3326.4	\$212,490	\$254,989	\$404,744
3	4	3	2	3	4	2	10	31	5	1	4166.0	2323.2	\$148,406	\$178,087	\$404,744

Contra Costa County Implementation Ranking NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

	_									Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design
Point 6	Rang 4	ge 3	2	4	4	4	13	TOTAL 40	RANK		Number				& Permitting
o Criter		3	2	4	4	4	13	40							
Cillei															
Distance of Continuit	Trail Classification (I,II,II	Shoreline Experienc	Support in Local Plan	Degree of Environmental Impact/ Regulatory Contex	Status of Property Control/ Ownershi	Preliminary Design Identifie	Cost Effectivenes								
<del>3</del> 6	4	8 3	5 1	2	- <del>1</del> 2	1	<del>8</del>	27	4		3 5006.0	3275	\$209,207	\$251,048	\$404,744
3	2	3	1	1	2	2	1	15	37		2 5008.0	1108.8	\$424,785	\$552,220	\$2,629,619
3	4	1	2	2	3	4	9	28	2		5012.0	7128	\$714,621	\$750,352	\$555,816
3	4	3	2	2	3	4	9	30	1		5012.1	1378.3	\$126,110	\$151,331	\$579,720
3	4	0	1	1	2	1	8	20	20		5017.0	1108.8	\$177,364	\$221,705	\$1,055,736
3	4	0	1	1	2	1	7	19	25	:	3 5022.0	4367	\$654,395	\$817,994	\$989,010
3	4	0	2	2	2	2	5	20	20			3854.4	\$317,217	\$412,382	\$564,907
1	3	0	2	2	2	1	1	12	42		5031.0	2376	\$3,450,000		\$9,200,000
2	3	3	2	2	2	1	1	16	31		•	1267.2	\$3,450,000		· · · · · · · · · · · · · · · · · · ·
1	2	2	1	0	1	1	1	9	45		4 5034.0	8870.4	\$13,429,431	\$19,472,675	\$11,590,878
1	2	3	1	2	2	1	8	20	20		•	6652.8	\$740,334	\$925,417	\$734,458
1	2	3	1	2	2	1	9	21	15	:	3 5038.0	1425.6	\$119,109	\$148,886	\$551,430
1	2	3	1	2	2	1	9	21	15			8078.4	\$674,950	-	
3	4	1	1	2	2	3	5	21	15			1056	\$173,000	\$224,900	\$1,124,500
1	4	1	2	2	2	4	7	23	8			1689.6	\$173,000	\$224,900	
1	4	3	1	3	1	2	7	22	12			5280	\$495,422	\$718,362	\$718,362
3	4	2	2	2	2	2	9	26	5			1425.6	\$173,000	\$224,900	-
1	4	3	1	2	2	4	6	23	8		•	1478.4	\$173,000	\$224,900	\$1,478
3	1	0	1	3	2	2	3	15	37			1689.6	\$341,603	\$444,084	\$1,387,764
1	4	3	1	2	1	2	4	18	27			3443.8	\$583,793	\$846,500	
3	4	1	1	2	1	1	7	20	20		3 5053.1	2702.5	\$289,173	\$375,925	\$734,463
1	4	0	1	1	1	2	2	12	42		5054.0	5280	\$1,480,513	\$2,146,744	\$2,146,744
3	4	0	1	3	3	1	8	23	8			5415.5	\$9,152	\$10,983	\$10,708
1	1	0	1	3	3	1	6	16	31		•	6523.3	\$11,024	\$13,780	
3	3	0	1	3	4	2	8	24	7		•	2827.6	\$443,903	\$577,074	\$1,077,575
1	4	0	2	2	2	4	7	22	12		•	11675.9	\$1,650,134	\$1,980,161	\$895,456
1	4	3	2	2	2	4	7	25	6			3069.2	\$559,124	\$670,949	
1	1	0	1	3	3	1	8	18	27			9316.7	\$94,192	\$117,740	
5	4	3	2	0	1	1	5	21	15			2655.5	\$469,413	\$610,237	\$1,213,349
1	1	0	1	3	3	1	6	16	31	1	5072.0	26391.3	\$44,601	\$55,752	\$11,154

										Project Category		Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design
Point	Rang	ge						TOTAL	RANK	culegoly	Number	Lengin (n.)		arenning	& Permitting
6	4	3	2	4	4	4	13	40							•
Criter	ia														
Distance of Continuity	Trail Classification (I, II,II	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Contex	Status of Property Control/ Ownership	Preliminary Design Identifiec	Cost Effectiveness								
3	1	0	2	3	4	2	6	21	15	1	5076.0	3612.4	\$6,033	\$7,541	\$11,022
2	4	0	2	4	4	4	7	27	4	1	5078.2	1571.5	\$235,458	\$235,458	\$791,102
1	4	2	2	3	4	2	2	20	20	1	5080.0	8852.1	\$3,200,000	\$3,840,000	\$2,290,440
5	4	3	2	3	4	3	4	28	2	1	5081.2	2117.7	\$317,295	\$396,619	\$988,878
1	4	2	1	2	3	2	4	19	25	1	5083.0	8985.2	\$3,200,000	\$3,840,000	\$2,256,511
1	1	0	1	3	3	2	2	13	41	1	5085.0	4592.8	\$90,432	\$113,040	\$129,954
1	4	2	2	3	4	2	5	23	8	1	5086.0	2564.2	\$434,683	\$543,354	\$1,118,832
1	1	0	0	3	3	2	6	16	31	1	5087.0		\$8,385	\$10,481	
1	2	0	1	3	4	1	3	15	37	1	5088.0	7927.8	\$415,020	\$539,526	\$359,330
1	1	0	1	3	4	1	6	17	29	1	5089.0		\$4,168	\$5,210	\$11,154
1	1	0	1	3	4	1	6	17	29	1	5090.0		\$20,785		
1	4	3	2	2	4	2	4	22	12	1	5092.0		\$1,515,214		
1	1	0	1	3	4	2	3	15	37	1	5093.0		\$21,672	\$27,090	
2	1	1	1	3	4	1	3	16	31	1	5095.0	4418	\$23,680	\$29,601	\$35,376
2	1	0	1	3	4	2	3	16	31	1	5096.0	7726.9	\$41,416	\$51,770	\$35,376

Solano County Implementation Ranking NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

										Project	Gap	Gap Segment	<b>Construction Cost</b>	Construction,	Cost per Mile
	_									Category	Segment	Length (ft.)		Design & Permitting	Construction,
Point	_						10	TOTAL	RANK		Number				Design & Permitting
6 Criter	4	3	2	4	4	4	13	40							
Ciller	iu ii														
Distance of Continuit	Trail Classification (1,11,11	Shoreline Experienc	Support in Local Plan	Degree of Environmental Impact/ Regulatory Contex	Status of Property Control/ Ownershi	Preliminary Design Identifie	Cost Effectivene								
Š	~	nce O	ans 2	ext 3	P	٥.	ss	24	24	1	6006.0	1692.5	\$28,915	\$36,144	\$112,756
1	4	0	2	3	4	4	6 10	24	4	1	6006.1	1130.4	\$25,627	\$32,034	\$149,627
2	4	0	2	3	4	4	3	29	30	1	6007.0	808.6	\$127,924	\$159,905	\$1,044,148
3	4	0	2	3	4	4	9	29	4	1	6008.0	1162.6	\$118,084	\$147,605	\$670,355
1	4	0	2	3	4	4	6	24	24	1	6008.1	413.3	\$33,434	\$41,793	\$533,909
1	4	0	2	3	4	4	11	29	4	1	6008.2	543.8	\$7,091	\$8,864	\$86,062
1	4	0	2	3	4	4	11	29	4	1	6008.3	765.9	\$4,538	\$5,673	\$39,105
1	4	0	2	3	4	4	8	26	16	1	6008.4	1563.9	\$25,977	\$32,471	\$109,629
1	4	1	2	3	4	4	8	20	11	1	6014.0	924.9	\$19,054	\$23,818	\$135,968
3	4	3	2	3	4	4	10	33	2	1	6015.1	1029.7	\$37,207	\$46,509	\$238,483
1	4	2	2	3	4	4	7	27	11	1	6015.2	300.5	\$26,190	\$32,738	\$575,221
1	4	2	2	3	4	4	2	27	29	1	6015.3	78.8	\$24,024	\$30,030	\$2,012,162
1	4	2	2	3	4	4	5	22	19	1	6015.4	532.2	\$29,302	\$36,628	\$363,384
1	4	2	2	3	4	4	5	23	24	1	6015.5	629.9	\$33,168	\$41,460	\$347,529
1	4	1	2	3	4	4	5	24	24	1	6015.6	238.4	\$13,737	\$17,171	\$380,303
1	4	1	2	3	4	4	9	24	24 9	1	6015.7	640.4	\$13,852	\$17,315	\$142,760
1	4	1	2	3	4	4	6	26	19	1	6015.8	373.9	\$21,158	\$26,448	\$373,476
1	4	0	2	3	4	4	7	25	19	1	6015.9	177.9	\$6,052	\$7,565	\$224,526
3	4	3	2	3	4	4	11	34	19	1	6016.0	1880	\$49,466	\$61,833	\$173,657
3	4	3	2	3	4	4	7	27	11	1	6016.1	980	\$19,054	\$23,818	\$128,323
1	4	2	2	3	4	4	8	2/	24	1	6016.2	4772.4	\$39,777	\$49,721	\$55,010
2	2	0	2	2	4	4	8 10	24	30	1	6019.0	3191.5	\$32,266	\$38,719	\$64,057
2	4	0	2	2	4	3	4	21	30	1	6020.0	4478.9	\$1,320,245	\$1,650,307	\$1,945,482
1	4	0	2	2	4	3	4	20	32 9	1	6023.0	5432.2	\$57,613	\$69,136	\$67,199

										Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	
Point	Rang							TOTAL	RANK		Number				Design & Permitting
6	4	3	2	4	4	4	13	40							
Criter	ria 🛛														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/ Regulatory Context	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
1	4	0	2	3	4	4	13	31	3	1	6023.1	3589.3	\$3,994	\$4,793	\$7,050
2	4	0	2	3	4	4	8	27	11	1	6023.2	1129.4	\$119,459	\$143,351	\$670,172
1	4	0	2	3	4	4	7	25	19	1	6031.0	3431.8	\$97,270	\$121,587	\$187,069
1	4	0	2	3	4	4	9	27	11	1	6032.0	7037.4	\$229,209	\$286,511	\$214,963
1	4	0	0	2	4	3	3	17	33	1	6033.0	3001.3	\$449,685	\$562,106	\$988,878
1	4	0	2	3	3	4	8	25	19	1	6034.0	746.7	\$42,175	\$52,718	\$372,777
1	4	0	2	3	3	4	9	26	16	1	6035.0	3921.4	\$4,679	\$5,849	\$7,876
1	4	0	2	3	3	4	9	26	16	1	6036.0	3821.3	\$4,319	\$5,399	\$7,460
1	4	3	2	3	3	4	9	29	4	1	6037.0	1364.9	\$1,727	\$2,158	\$8,350

#### The San Francisco Bay Trail Project Gap Analysis Study

# Napa County Implementation Ranking

NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

										Project Category	-	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction,
Point	Rang	ge						TOTAL	RANK	<i>,</i>	Number			с с	Design & Permitting
6	4	3	2	4	4	4	13	40							
Criter	ia														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmenta Impact/ Regulatory Context	Status of Property Control, Ownership	Preliminary Design Identified	Cost Effectiveness								
1	4	2	2	3	3	4	10	29	1	1	7004.0	740.1	\$65,749	\$82,186	\$586,329
1	4	0	2	3	3	4	12	29	1	1	7005.0	1642.8	\$95,183	\$118,978	\$382,400
2	4	0	0	3	1	2	6	18	16	1	7006.0	3756.2	\$562,791	\$703,489	\$988,878
1	2	0	1	3	3	2	8	20	11	1	7007.0	3802.8	\$38,446	\$48,058	\$66,726
3	4	1	1	3	1	2	2	17	21	1	7008.0	120	\$216,509	\$270,636	\$1,726
1	2	0	0	3	1	1	2	10	28	1	7011.0	12311.1	\$644,240	\$805,300	\$345,378
1	4	0	0	3	2	1	6	17	21	1	7012.0	14312.5	\$2,144,442	\$2,680,552	\$988,878
1	2	0	0	2	3	3	9	20	11	1	7013.0	2223.4	\$22,479	\$29,222	\$69,395
2	4	0	0	2	3	3	7	21	8	1	7013.1	4529.5	\$410,211	\$533,275	\$621,634
2	4	0	1	3	2	3	10	25	3	1	7014.0	5515.2	\$350,990	\$350,990	\$336,022
1	2	0	1	3	3	2	4	16	26	1	7015.0	21909.5	\$330,336	\$330,336	\$79,608
1	2	1	1	3	2	1	7	18	5	1	7015.1	11265.12	\$255,705	\$255,705	\$119,850
2	2	0	1	3	3	1	5	17	21	1	7017.0	13328.6	\$460,341	\$575,426	\$227,949
2	1	0	1	3	1	1	13	22	6	1	7019.0	5455.8	\$9,111	\$11,389	\$11,022
1	2	0	1	3	3	1	9	20	11	1	7021.0	15647.6	\$158,197	\$197,747	\$66,726
2	2	0	1	3	3	1	9	21	8	1	7021.1	5340.6	\$53,993	\$67,492	\$66,726
1	4	0	1	0	3	1	8	18	16	1	7022.0	10739.8	\$685,844	\$994,473	\$488,912
2	2	0	2	3	4	2	8	23	4	1	7023.0	7936.7	\$1,231,720	\$1,231,720	\$819,419

Point	Rang	ge						TOTAL	RANK	Project Category	-	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design & Permitting
6	4	3	2	4	4	4	13	40							
Criter	'ia														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmenta Impact/ Regulatory Contex	Status of Property Control, Ownership	Preliminary Design Identified	Cost Effectiveness								
1	2	0	1	3	4	1	5	17	21	1	7025.0	6344	\$331,982	\$414,977	\$345,378
4	2	0	2	3	4	2		17	21	1	7026.0	5790.9	\$58,546	\$73,182	\$66,726
2	4	0	2	1	1	2	4	16	26	4	7026.1	4497.9	\$52,000	\$52,000	\$61,042
2	2	0	2	3	4	2	8	23	4	1	7026.2	1658.5	\$2,799	\$2,799	\$8,911
1	2	0	2	3	4	2	8	22	6	1	7026.3	5558.2	\$14,840	\$539,677	\$512,665
1	4	0	1	3	4	2	6	21	8	1	7027.0	15010.1	\$2,248,963	\$2,811,204	\$988,878
1	2	0	1	3	4	2	5	18	16	1	7029.0			\$203,721	
1	2	0	1	3	4	2	5	18	16	1	7031.0	2310.3	\$23,357	\$29,196	\$66,726
2	2	0	1	3	4	2	5	19	15	1	7031.1	1743.8	\$17,630	\$22,037	\$66,726
2	2	0	1	3	4	2	6	20	11	1	7032.0	4290.2	\$224,506	\$280,633	\$345,378

#### The San Francisco Bay Trail Project Gap Analysis Study

### Sonoma County Implementation Ranking

NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

Point	Rang	ge						TOTAL	RANK	Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design &
6	4	3	2	4	4	4	13	40							Permitting
Crite	ria														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmenta Impact/ Regulatory Context	Status of Property Control, Ownership	Preliminary Design Identified	Cost Effectiveness								
1	2	1	1	3	3	2	2	15	7		8000.0				
1	2	1	1	3	4	2	2	16	6		8001.0		\$3,257,847	\$4,235,201	
3	4	0	2	2	1	3	12	27	2		8002.0		\$55,000		
2	4	0	2	2	1	1	8	20	17		8002.1		\$1,025,000		
1	4	0	2	2	1	2	6	18	23		8003.1		\$2,500,000		
2	4	0	2	2	1	2	5	18	23		8003.2				
1	2	1	1	3	4	2	5	19	2		8004.0	29340.44	\$1,535,385	\$1,996,001	\$359,193
2	2	0	1	4	4	1	12	26	3		8005.0	10250	\$27,368	\$34,209	\$17,622
2	1	0	2	2	0	1	12	20	17		8005.1	3898.2	\$10,000	\$13,000	\$17,608
1	1	0	2	2	4	2	10	22	12		8005.2	2 2714	\$5,000	\$6,500	\$12,646
1	1	0	2	3	4	2	9	22	12		8005.3	3 2100	\$5,000	\$6,500	\$16,343
1	2	0	2	2	1	2	5	15	27		8005.8	6968.5	\$800,000	\$1,040,000	\$788,003
1	4	0	1	3	4	2	6	21	15		8006.0	7454.6	\$75,366	\$94,208	\$66,726
2	4	1	2	2	1	4	8	24	7		8006.2	4230.1	\$185,000	\$240,500	\$300,191
1	4	1	2	2	4	4	8	26	3		8006.3	4796.7	\$30,000	\$39,000	\$42,930
1	4	2	2	2	3	4	6	24	7		8007.0	30498.1	\$2,005,000	\$2,606,500	\$451,252
1	1	2	2	2	4	4	4	20	17		8007.1	472.6	\$5,000	\$6,500	\$72,620
1	2	1	1	3	4	2	5	19	2		8008.0	36754.63	\$1,923,370	\$2,500,381	\$359,193
1	1	1	2	2	4	4	7	22	12		8009.0	1356.2	\$5,000	\$6,500	\$25,306
1	4	2	2	2	1	4	8	24	7		8010.1	7515.9	\$255,000	\$331,500	\$232,882

Point	Ranç							TOTAL	RANK	Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design & Permitting
6	4	3	2	4	4	4	13	40							
Criter	ria														
Distance of Continuity	Trail Classification (I,II,II	Shoreline Experience	Support in Local Plans	Degree of Environmenta Impact/ Regulatory Contex	Status of Property Control) Ownership	Preliminary Design Identified	Cost Effectiveness								
1	4	2	2	2	1	4	9	25	6	1	8010.2	2840.2	\$50,000	\$65,000	\$120,837
1	2	3	2	2	0	4	1	15	27	1	8011.1	707	\$650,000	\$845,000	\$6,310,608
1	4	0	2	2	4	4	7	24	7	1	8011.2	1143.3	\$10,000	\$13,000	\$60,037
1	1	0	1	1	2	1	1	8	30	4	¥ 8012.1	1238.1	\$1,874,409	\$2,436,732	\$10,391,684
3	4	2	2	3	1	4	7	26	3	1	8012.3	3291.5	\$1,005,000	\$1,306,500	\$2,095,798
1	4	0	2	3	2	4	2	18	23	1	8012.4	124.8	\$42,500	\$55,250	\$2,337,500
1	4	0	2	3	3	4	7	24	7	1	8012.5	632.3	\$10,000	\$13,000	\$108,556
3	4	2	2	3	1	4	12	31	1	1	8013.0	16702.3	\$565,000	\$734,500	\$232,193
2	4	0	2	3	3	4	3	21	15	1	8014.1	8008.5	\$2,005,000	\$2,606,500	\$1,718,464
1	2	1	1	3	4	2	5	19	2	1	8018.0	3908.73	\$204,544	\$265,907	\$359,193

#### The San Francisco Bay Trail Project Gap Analysis Study

### Marin County Implementation Ranking

NOTES: Implementation criteria definitions are provided on page one of this appendix. See Appendix A for cost estimate details and project category definitions.

										Project Category	Gap Segment	Gap Segment Length (ft.)	Construction Cost	Construction, Design &	Cost per Mile Construction, Design
Point R	ange							TOTAL	RANK		Number			Permitting	& Permitting
6	4	3	2	4	4	4	13	40							
Criteria	1														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
0	1	2	1	4	4	1	1	14	53	4	9000.0		1 / /		
0	4	0	0	2	1	1	1	9	62	4	9001.0	811.7	\$1,228,865		
2	1	0	1	2	1	1	8	16	45	1	9002.0	16851.8		-	
2	4	0	1	2	1	1	8	19	35	1	9003.0		\$2,568,357		
4	4	1	2	1	1	1	10	24	16	1	9005.0		1 1 -	\$398,269	
0	4	1	2	2	1	1	5	16	45	1	9009.0	13038			
5	4	2	2	2	2	2	12	31	3	1	9011.0			• •	
5	4	2	2	2	2	2	12	31	3	1	9013.0				
0	4	1	2	1	1	1	4	14	53	1	9015.0				
1	4	1	2	1	1	1	4	15	49	1	9022.0		\$2,399,810	\$3,119,753	
1	2	1	0	1	2	1	4	12	58	1	9024.0			• •	
0	4	2	0	2	3	1	4	16	45	1	9027.0	12790	\$1,103,512	\$1,434,565	\$592,221
1	4	0	0	2	3	2	3	15	49	1	9030.0	3335.7	\$500,044	\$625,055	\$989,384
3	4	2	0	2	3	2	6	22	23	1	9032.0	5308.8	\$339,087	\$423,858	\$421,559
3	1	3	1	2	2	1	4	17	44	1	9034.0	8790.2	\$561,448	\$701,810	\$421,556
3	1	2	1	3	4	3	5	22	23	1	9035.0	6324.2	\$10,737	\$12,885	\$10,757
0	1	1	1	3	4	3	5	18	40	1	9036.0		\$6,931	\$8,317	\$10,778
0	1	1	1	3	4	3	5	18	40	1	9037.0	2929	\$4,973	\$5,968	\$10,757
0	1	0	1	2	3	3	5	15	49	1	9038.0	6948.3	\$11,662	\$14,578	\$11,078
0	1	0	1	2	3	3	8	18	40	1	9038.1	3483.4	\$15,233	\$19,041	\$28,861
0	1	0	1	2	3	3	10	20	29	1	9039.0	3202.8	\$5,418	\$6,773	\$11,166
0	2	1	0	2	2	2	10	19	35	1	9040.0	581.3	\$5,941	\$7,426	\$67,453

										Project	Gap	Gap Segment		Construction,	Cost per Mile
Point R	ange							TOTAL	RANK	Category	Segment Number	Length (ft.)	Cost	Design & Permitting	Construction, Design & Permitting
6	4	3	2	4	4	4	13	40						ů	Ū
Criteric	1														
Distance of Continuity	Trail Classification (1,11,11	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact	Status of Property Control/ Ownership	Preliminary Desig Identifie	Cost Effectivenes:								
uity	cation (I,II,II)	nce	ans	e of act/	erty ship	sign fied	less								
3	4	3	1	4	2	2	9	28	6	1	9041.0	2690.6	\$263,771	\$329,714	
0	3	1	1	3	3	3	5	19	35	1	9042.0	1305.5	\$2,234	\$2,681	
0	4	1	0	1	1	2	6	15	49	3	9043.1	1988.7	\$166,136	\$207,670	\$551,365
0	1	0	1	2	3	1	5	13	56	1	9043.2	7598.6	\$397,675	\$516,977	\$359,229
0	1	1	0	2	3	3	10	20	29	1	9044.0	1341.5	\$2,392	\$2,871	\$11,299
6	4	3	0	2	1	2	9	27	9	1	9049.0	1621.4	\$158,973	\$198,716	\$647,107
3	4	3	2	2	1	2	8	25	14	1	9055.0	1325.5	\$103,899	\$129,873	\$517,337
3	4	0	1	2	1	1	1	13	56	4	9057.0	5308.8	\$4,989,283	\$7,234,460	\$7,195,213
3	4	0	2	1	2	1	1	14	53	1	9058.0	151	\$228,711	\$297,324	\$10,396,511
3	4	2	2	2	1	1	1	16	45	1	9061.0	1229.5	\$3,600,180	\$4,320,216	\$18,552,859
6	4	1	1	2	2	2	10	28	6	1	9062.0	3182.1	\$634,694	\$825,103	\$1,369,078
3	4	3	1	3	2	2	6	24	16	1	9063.0	6635.4	\$423,800	\$529,750	\$421,539
0	3	2	0	3	1	2	7	18	40	1	9063.1	1754.4	\$154,241	\$200,513	\$603,459
3	4	3	2	2	2	2	5	23	20	1	9064.0	2272.1	\$630,000	\$756,000	\$1,756,824
5	2	0	1	2	2	2	6	20	29	1	9065.0	1306.2	\$161,022	\$209,328	\$846,158
0	4	0	1	2	1	1	1	10	60	4	9066.0	12769.1	\$19,331,651	\$28,030,894	\$11,590,725
3	4	3	2	2	3	3	12	32	1	1	9067.0	4099.3	\$342,670	\$445,471	\$573,778
0	0	2	2	3	4	4	6	21	26	1	9069.0	1182.6	\$200,000	\$260,000	\$1,160,832
0	0	2	2	3	4	4	6	21	26	1	9070.0	2438.6	\$4,000	\$5,200	\$11,259
0	4	1	2	2	4	4	3	20	29	1	9071.0	1812.7	\$271,646	\$353,139	\$1,028,618
3	4	0	2	2	4	4	7	26	12	1	9072.0	2241.5	\$660,763	\$792,916	\$1,867,765
2	1	0	1	1	1	1	5	12	58	1	9073.0	9528.9	\$388,157	\$504,604	\$279,603
2	4	1	2	2	4	4	8	27	9	1	9074.0	3270	\$427,042	\$427,042	\$689,536
3	2	1	2	2	2	2	5	19	35	1	9075.0	1648	\$16,727	\$20,908	\$66,988
2	3	2	2	3	3	2	4	21	26	1	9079.0	735.3	\$46,989	\$58,737	\$421,772
3	1	2	2	3	4	3	4	22	23	1	9080.0	2378.8	\$151,925	\$189,906	\$421,517

Point F	Range							TOTAL	RANK	Project Category	Gap Segment Number	Gap Segment Length (ft.)	Construction Cost	Construction, Design & Permitting	Cost per Mile Construction, Design & Permitting
6	4	3	2	4	4	4	13	40						-	•
Criterio	a														
Distance of Continuity	Trail Classification (I,II,II)	Shoreline Experience	Support in Local Plans	Degree of Environmental Impact/	Status of Property Control/ Ownership	Preliminary Design Identified	Cost Effectiveness								
0	1	2	1	2	1	1	2	10	60	1	9082.0	23905.8	\$973,731	\$1,265,850	\$279,584
5	1	2	1	4	3	3	11	30	5	1	9083.0	1085.8	\$2,291	\$2,864	\$13,928
0	2	2	1	4	4	3	10	26	12	1	9086.0	4699.6	\$7,870	\$9,838	\$11,052
4	2	1	1	3	3	3	7	24	16	1	9089.0	386.6	\$20,325	\$26,422	\$360,862
4	4	1	1	3	4	4	6	27	9	1	9090.0	528.5	\$51,809	\$64,761	\$646,998
3	4	2	1	3	3	2	5	23	20	1	9092.0	7079.7	\$931,715	\$1,164,643	\$868,584
3	1	2	1	3	3	3	12	28	6	1	9093.0	1659.1	\$2,912	\$3,495	\$11,122
3	1	3	0	2	1	1	12	23	20	1	9095.0	2616.2	\$4,402	\$5,503	\$11,106
3	1	3	2	3	4	4	12	32	1	1	9102.0	1980.5	\$3,360	\$4,200	\$11,196
0	1	2	1	3	4	3	10	24	16	1	9103.0	2171.5	\$3,666		
0	3	2	1	2	2	2	7	19	35	1	9104.0	3674.3	\$204,477	\$255,596	
0	3	2	1	2	2	2	8	20	29	1	9105.0		\$60,278	\$75,348	
3	4	3	1	3	3	2	6	25	14	1	9107.0		\$104,600	1 1	
3	2	3	1	3	2	3	3	20	29	1	9108.0	1385.3	\$58,168	\$72,710	\$277,130

## **APPENDIX D: SURVEY**



For Map Segment ID #: <u>1</u>

1. Please fill out one of these survey forms for each Bay Trail Gap segment shown in the attached map(s). The gaps are numbered on the map and in this survey – please be sure to match them in your responses.

2. We prefer that you respond to this survey online—see below for web address.

3. If you cannot use the online web site, please fill out each survey form by hand and return it in the enclosed envelope.

4. If you have any questions, please contact: Maureen Gaffney at 510.464.7909 or <u>MaureenG@abag.ca.gov</u>

Thanks for your help!

To complete this survey(s) online go to:

http://www.surveymonkey.com/s.asp?u=59504847661

Important: Fill out one questionnaire for each individual numbered and highlighted segment on the enclosed map(s). The ID is shown above and on the inside of this questionnaire.

## **BAY TRAIL GAP ANALYSIS QUESTIONNAIRE**

Thank you for taking the time to provide this information to us. Please call Maureen Gaffney at 510.464.7909 if you have questions. Please return the completed form(s) in the enclosed addressed envelope by February 25, 2005. If you are not the appropriate contact, please forward to the relevant person in your agency.

Agency Name:		
Contact Name:	Phone Number: Segment ID:	1
	Segment Length (miles):	0.24

Identify the proposed type of trail segment (select one):

□ Bike lanes and sidewalk □ Signed bike route and sidewalks □ Separated Path □ Unknown

If the trail segment corridor will have more than one of the above characteristics, please separate into distinct segments and show new segment boundaries on the map.

Is the trail segment accurately represented on the attached map?

🗆 Yes 🗆 No

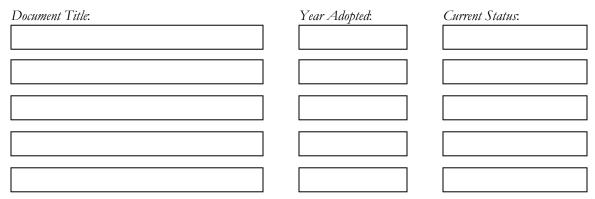
If not, please show the correct alignment on the map and describe changes below:

1. Is the trail segment included in a planning document?

(i.e. general plan, specific plan, bicycle-pedestrian master plan, trail plan, feasibility study, etc.)

□ Yes □ No

If yes, please list document title, year adopted or current status:



2. Are cost estimates available for trail design and construction of this segment?

□ Yes □ No

If yes, please provide any available cost estimates:

	Cost:	Year Estimated:	Source:	
Total Cost:				
Acquisition:				
Design:				
Environmental Review:				
Trail				
Construction:				
Other:				

3. Has any funding been programmed or secured for this segment?

□ Yes [	□ No
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Funding:

Schedule: Amount: Source

4. Is the trail segment (or any portion thereof) part of any PROPOSED project or development?

(if more than one development project is proposed along the segment, please list on the front page and indicate project locations and associated trail segments on the map.)

□ Ye	es 🗆 No	Estimated Segment Completion date:
Proje	ct Name:	
Staff	Contact Na	me: Phone Number:
Brief	Description	n of Project:
5. Iden	tify known o	obstacles to completing the trail segment by checking all relevant box(es):
A)		onstraints: 'raffic Hazard □ Adjacent incompatible land use □ Railroad Crossing □ 'ondo □ Narrow right-of way □ Subject to flooding □ Other □
	Description	n:
B)	Wetland H	ental Setting: abitat □ Sensitive species are present □ Bridge needed □ Boardwalk needed □ il contamination □ Other □
	Description	n:
C)		Constraints: a private property  Maintenance entity not identified  Security or operational Safety/liability concerns  Other
	Description	n:
D)		fied in local plans □ Dependent on development proposal □ Alternative at is preferred □ Other □
	Description	n:
E)	Political Se Not suppo	tting: rted by community $\Box$ Not a priority for the jurisdiction Other $\Box$
	Description	n:
F)		r land acquisition required □ Environmental review or permitting not funded □ lesign, or construction not funded □ Matching funds unavailable □

Maintenance funds unavailable  $\Box$  Other  $\Box$ 

Description:

G) Identify support for the segment (legislative, local groups, etc.):

6. Given the above obstacles along this segment, is there an alternative feasible alignment that could be constructed avoiding the identified obstacles?

 $\square$  Yes  $\square$  No If yes, please describe and show new alignment on the map:

7. Is there an opportunity for an improved Bay Trail alignment in this area?

(i.e. should the alignment be moved closer to the shoreline, can it be separated from traffic, is there a more direct continuous route, etc.)

$-\mathbf{V}$ $-\mathbf{N}$	
🗆 Yes 🗆 No	If yes, please describe and show new alignment on the map:

Notes

# **APPENDIX E: TRAIL USAGE METHODOLOGY**

#### **Trail Usage Methodology**

The Trail Demand Model created by Alta Planning + Design is an attempt to provide a systematic approach to estimating potential trail usage for new and developing trail systems in a variety of locations. The model builds on published data and provides several methods of 'factoring' demand to reflect local knowledge and conditions. Where possible, the model is calibrated to actual counts so that its accuracy can be improved. The table below shows the inputs used to develop demand estimates by County for the Bay Trail.

TRAIL USAGE ESTIMATING TOOL	SF ENTER HERE	MARIN	0000	SOL	SON	SMAT A	ALA	SCLARA N	NAPA
<ol> <li>Quality of Completed Pathway /1</li> <li>1 = poor 2 = fair 3 = good 4 = excellent</li> </ol>	4	4	4	4	4	4	4	4	4
2. Area climate       4									
<ol> <li>Population of towns/cities directly served (round to 1,000s)</li> <li>Percent of county population</li> </ol>	776	171	260	142	68	514	1027.5	558.5	86
	100%	69%	27%	36%	15%	73%	71%	33%	69%
<ol> <li>Population of other towns/cities within 20 m (round to 1,000s)</li> </ol>	200	63	640	133	161	193	169	820	1
5. Annual tourist person visits to area	15000	1742	2952	1978	4458	10125	7026	8915	2627
(round to 1,000s)	13500	1393.6	1476	989	891.6	9112.5	6323.4	1783	525.4
Proximity factor	0.9	0.8	0.5	0.5	0.2	0.9	0.9	0.2	0.2
ESTIMATED ANNUAL USAGE	15,384,192	3,337,169	5,101,993	2,772,837	1,351,251	10,201,515	19,962,112	10,860,392	1,669,450

Notes:

Fair = at least two of these five items: over 1 mile in length, reasonable access, serves major destinations, serves major transit center, neutral or attractive environment Good = at least three of these five items: over 2 miles in length, good access, serves a major destination(s), serves major transit center, attractive environment

Excellent = at least four of these five items: over 2 miles in length, good access, serves a major destination(s), serves major transit center, attractive environment

/3 Enter 1 if local population 1,000 or less

/4 Exclude town/city directly served by trail

/5 Contact State or Local Tourism Department

Factors that influence trail use, from quality of the completed trail system, area climate, base population directly served by the trail, regional population within 20 miles or less of the trail, and annual tourists are collected and entered into the model. A proximity factor is then assigned to the visitor figures, which reflects the fact that visitors are more likely to use the Bay Trail where it is located very close to other visitor destinations, hotels, etc. Calculations are as follows:

Population directly served by trail (rounded to 000s): x 10,000 (+) Regional population within 20 miles (rounded to 000s): x 48 (+) Visitors (rounded to 000s, factored by proximity factor): x 18 (x) (Quality and Climate score x .24) = Future (build-out) Usage Estimate

To derive the existing usage figure, the future figure is factored by the percentage the Bay Trail is complete in each county. For example, the future build-out usage figure for Sonoma County is 1,351,251. Since the Bay Trail is only 5% complete in Sonoma County, this figure is factored to 67,563 annual users to reflect existing usage.

<sup>/1</sup> Poor = at least two of these three items: less than 1 mile in length, poor access, or unattractive environment

# San Francisco Bay Trail **The Vision**



