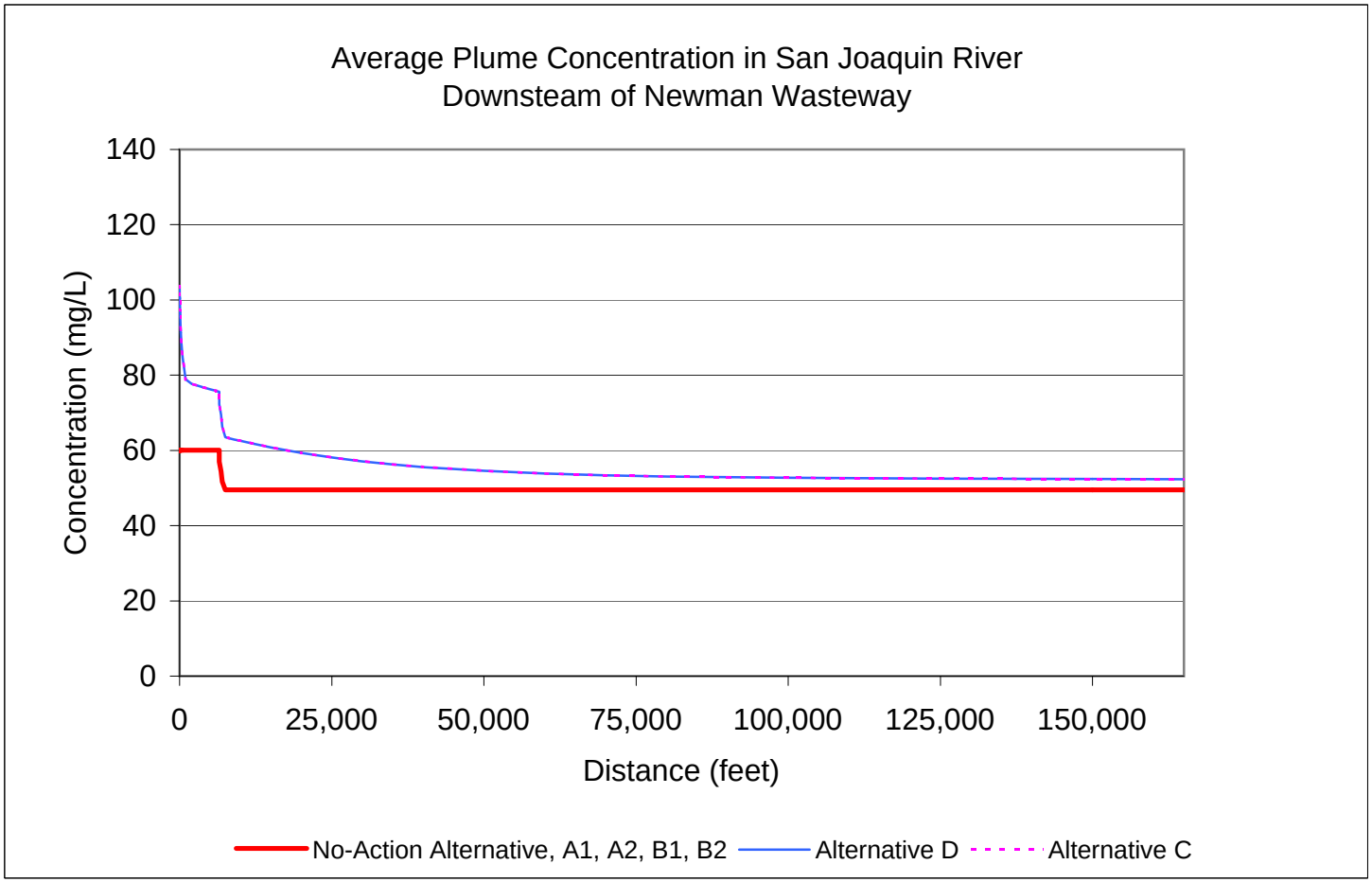
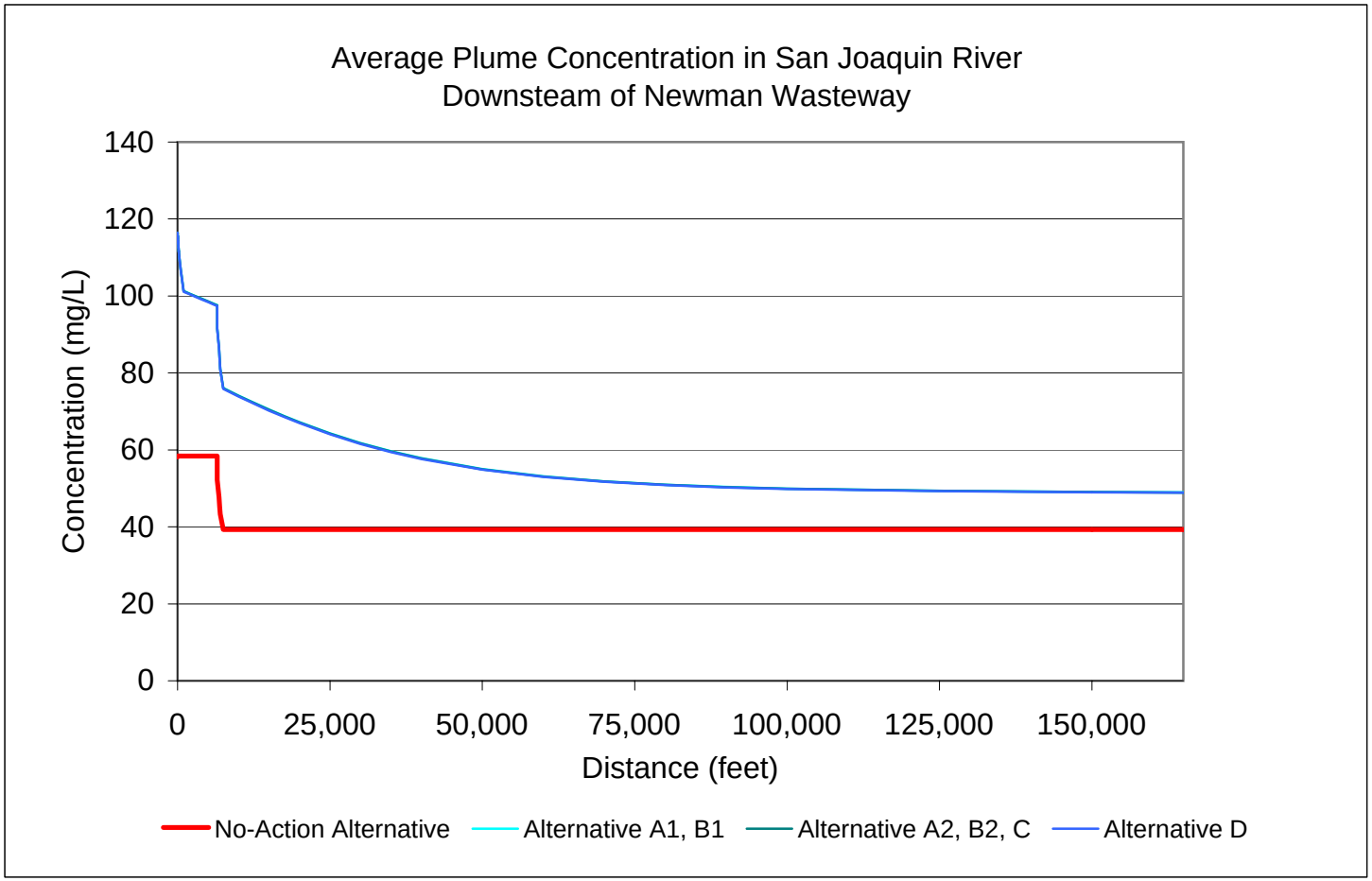
Attachment D2
San Joaquin River Average River TSS Concentration Results Figures



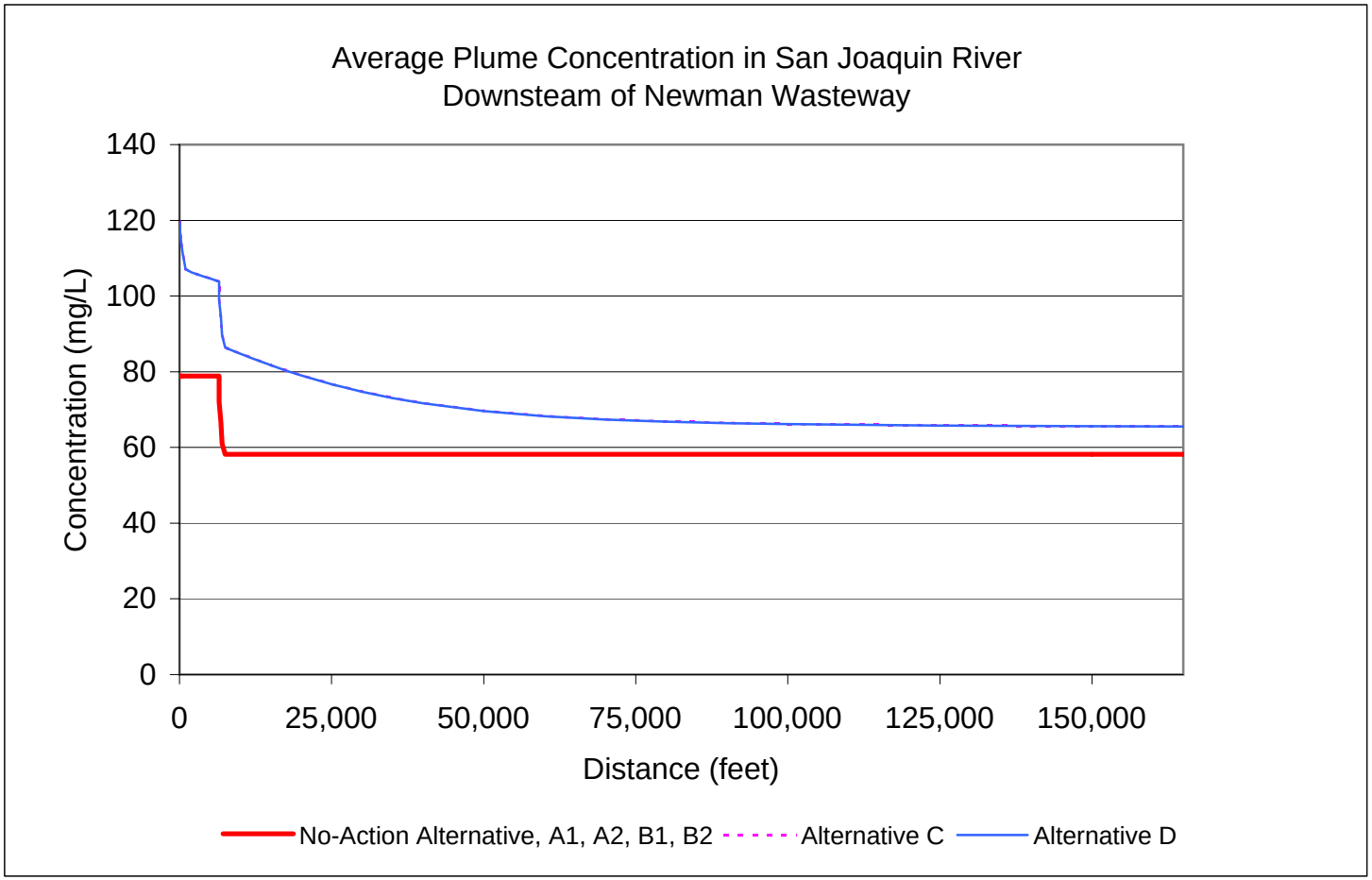
Above Normal Feb - 1963

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	60	1343	60	410	15
Alternative A1	0	60	1343	60	410	15
Alternative A2	0	60	1343	60	410	15
Alternative B1	0	60	1343	60	410	15
Alternative B2	0	60	1343	60	410	15
Alternative C	473	104	1343	60	410	15
Alternative D	472	104	1343	60	410	15



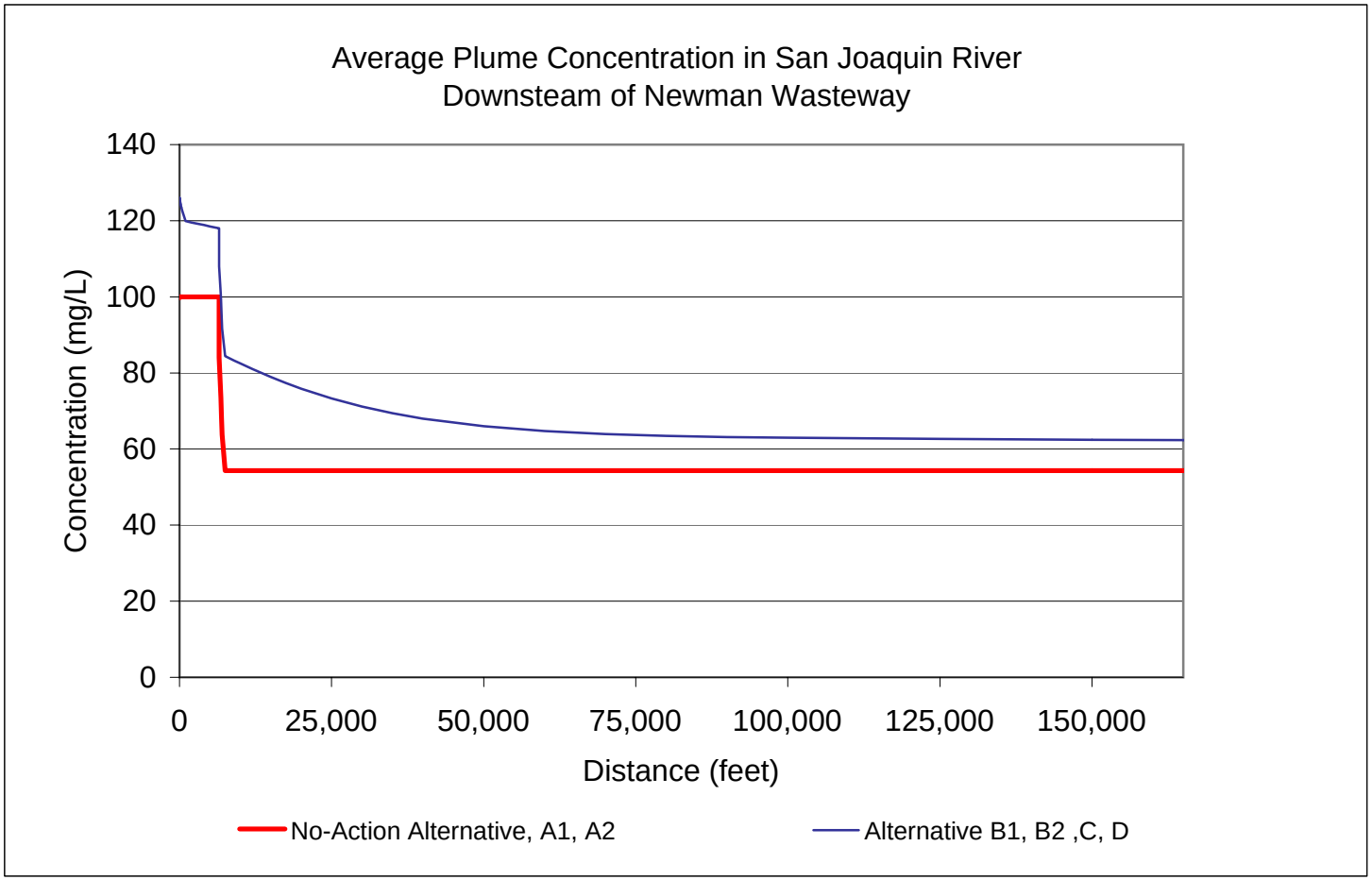
Above Normal Mar - 1963

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	58	691	58	469	11
Alternative A1	1019	116	691	58	469	11
Alternative A2	1016	116	691	58	469	11
Alternative B1	1019	116	691	58	469	11
Alternative B2	1016	116	691	58	469	11
Alternative C	1016	116	691	58	469	11
Alternative D	1009	116	691	58	469	11



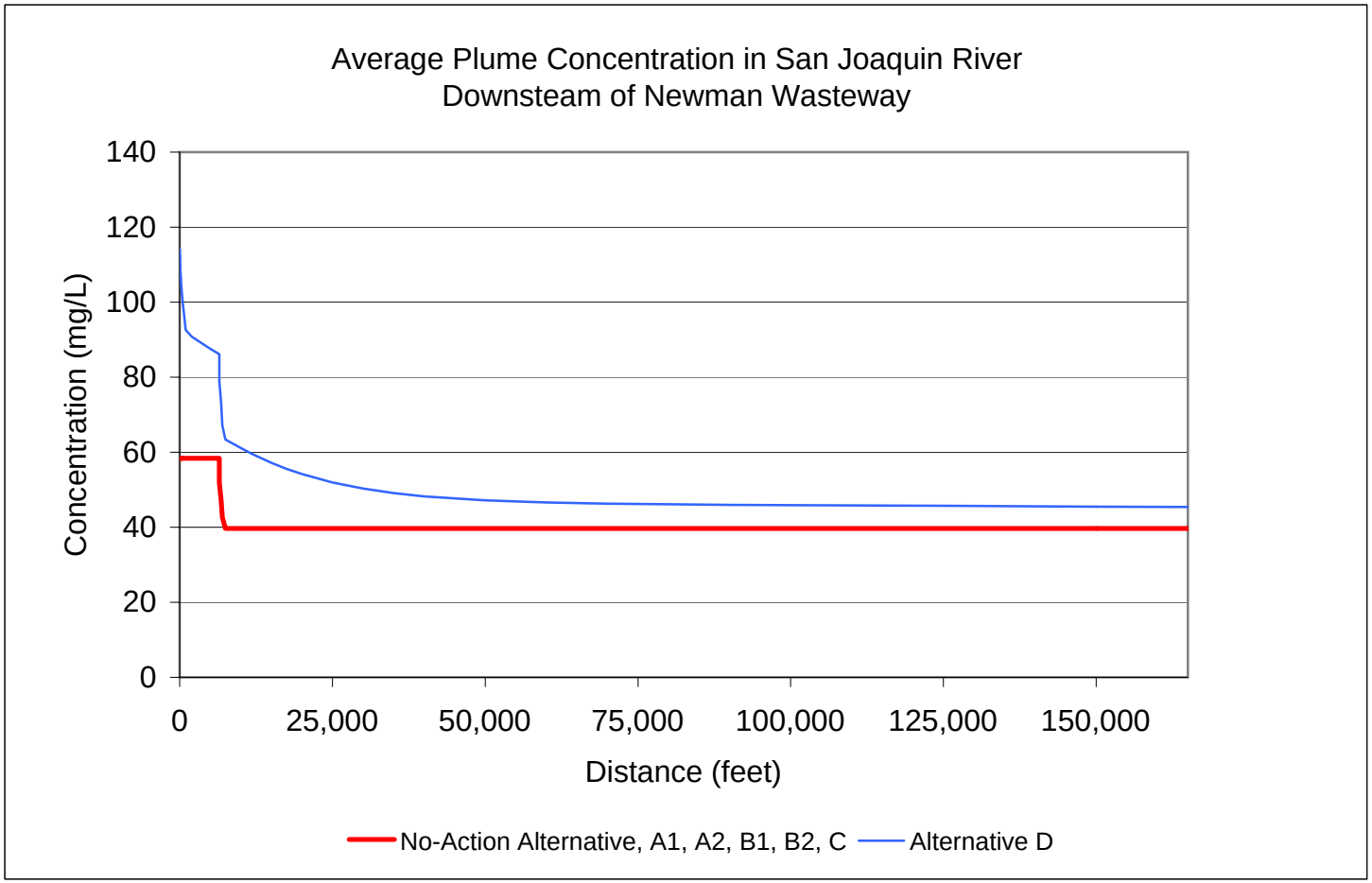
Above Normal May 1963

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	79	706	79	272	5
Alternative A1	0	79	706	79	272	5
Alternative A2	0	79	706	79	272	5
Alternative B1	0	79	706	79	272	5
Alternative B2	0	79	706	79	272	5
Alternative C	830	119	706	79	272	5
Alternative D	827	119	706	79	272	5



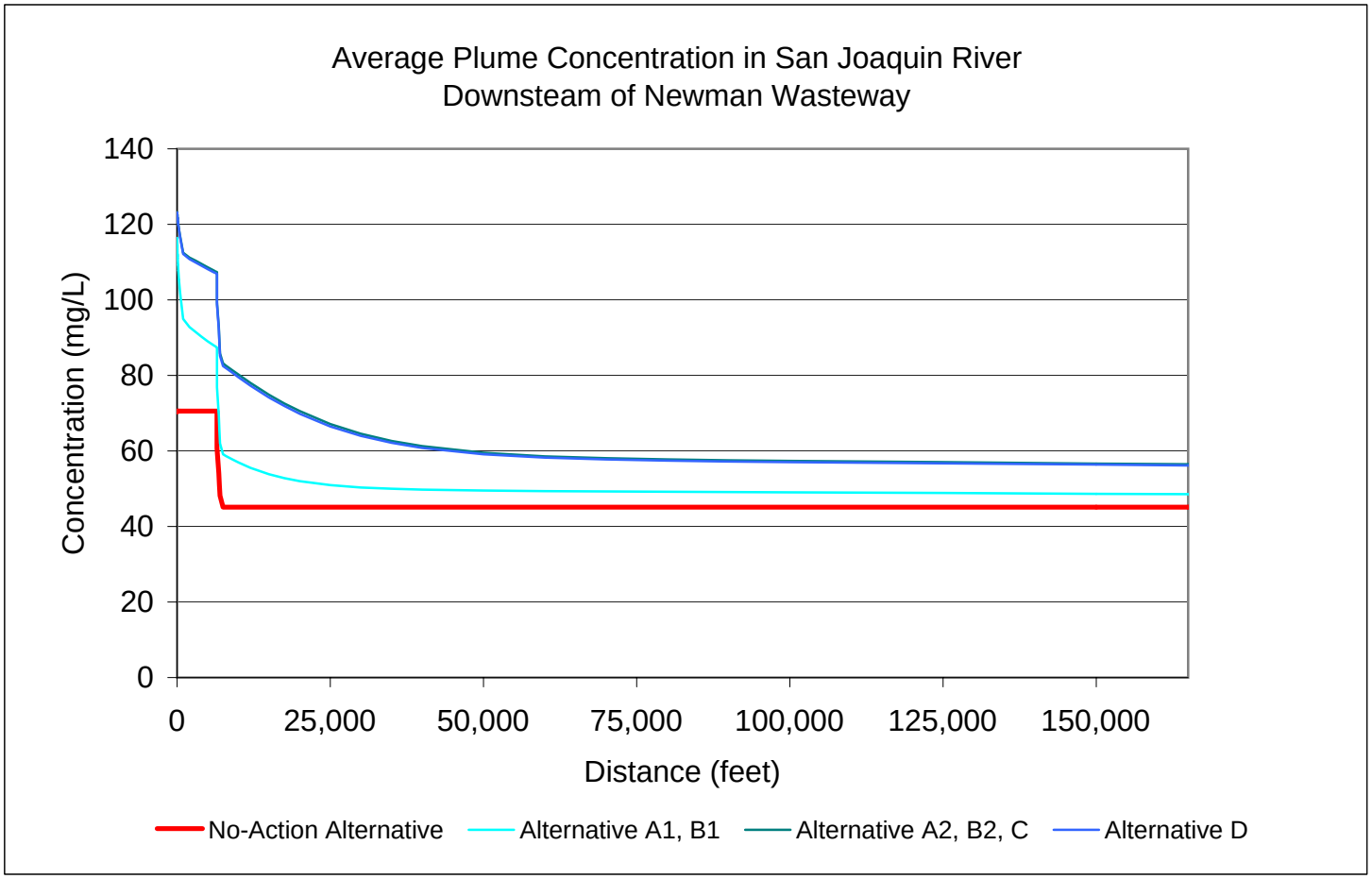
Above Normal June 1963

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	100	464	100	460	8
Alternative A1	0	100	464	100	460	8
Alternative A2	0	100	464	100	460	8
Alternative B1	828	126	464	100	460	8
Alternative B2	828	126	464	100	460	8
Alternative C	828	126	464	100	460	8
Alternative D	828	126	464	100	460	8



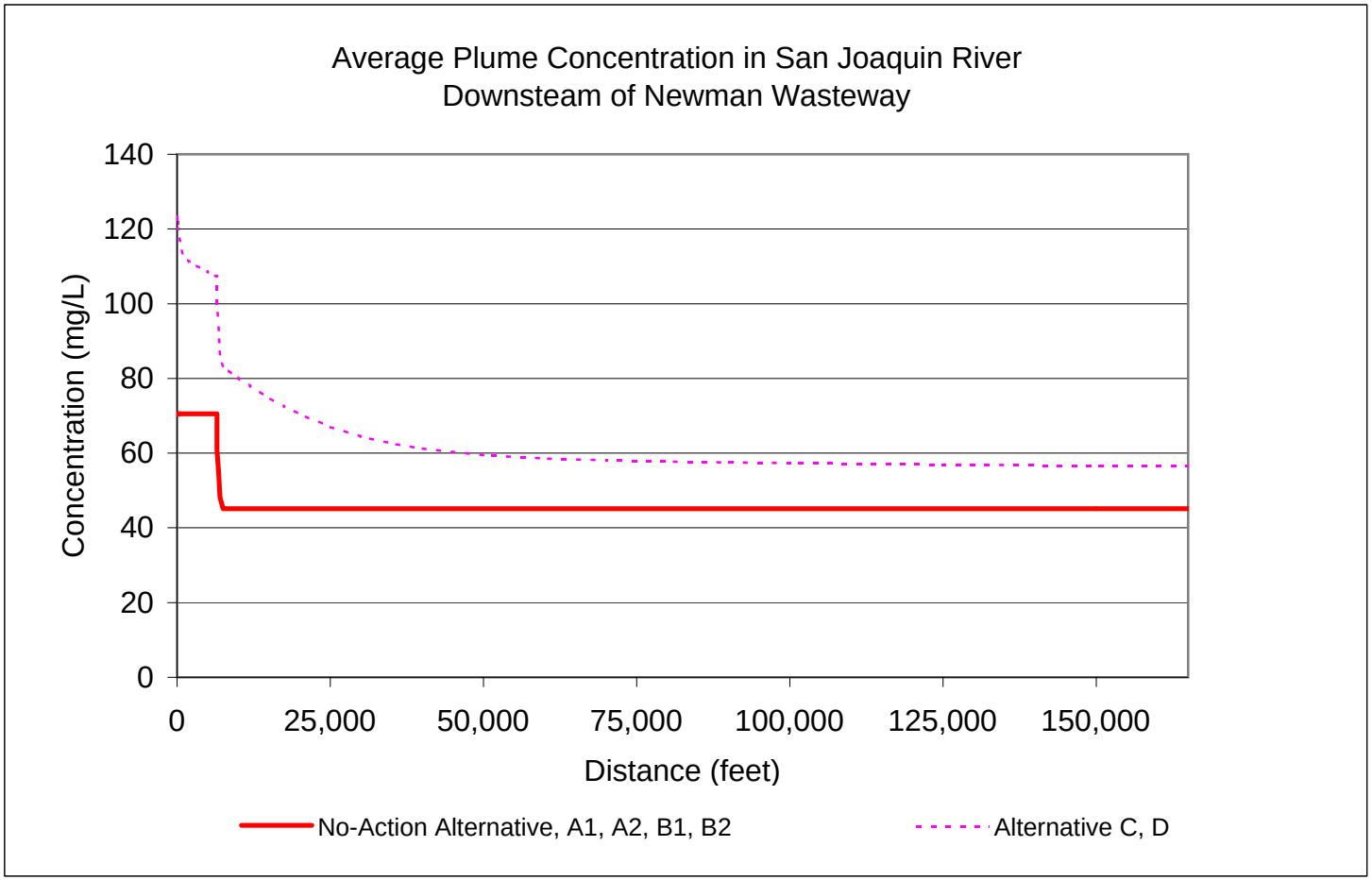
Critical Mar 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	58	454	58	298	11
Alternative A1	0	58	454	58	298	11
Alternative A2	0	58	454	58	298	11
Alternative B1	0	58	454	58	298	11
Alternative B2	0	58	454	58	298	11
Alternative C	0	58	454	58	298	11
Alternative D	408	114	454	58	298	11



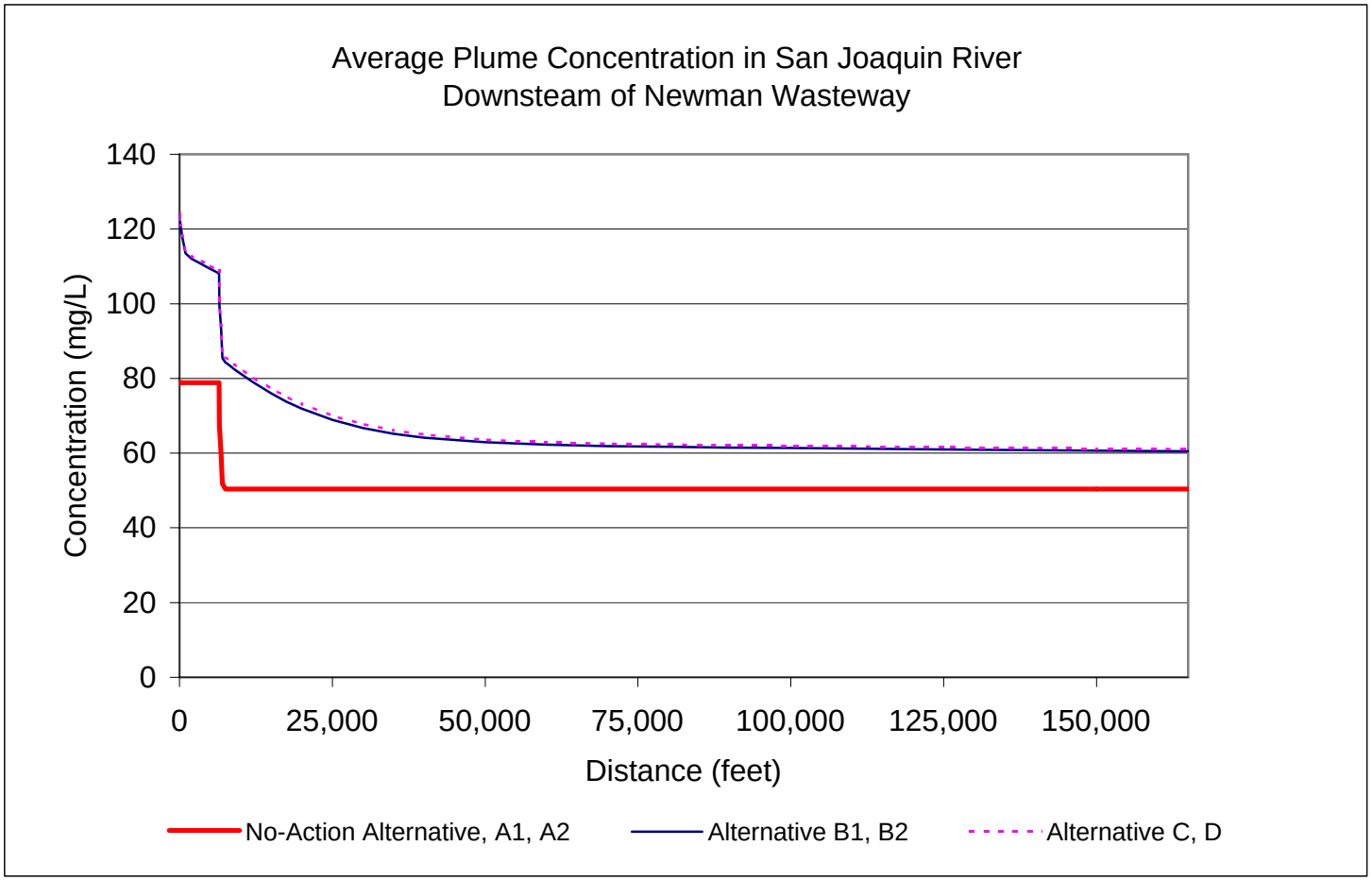
Critical Apr - 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	71	248	71	203	14
Alternative A1	178	116	248	71	203	14
Alternative A2	564	123	248	71	203	14
Alternative B1	178	116	248	71	203	14
Alternative B2	564	123	248	71	203	14
Alternative C	564	123	248	71	203	14
Alternative D	549	123	248	71	203	14



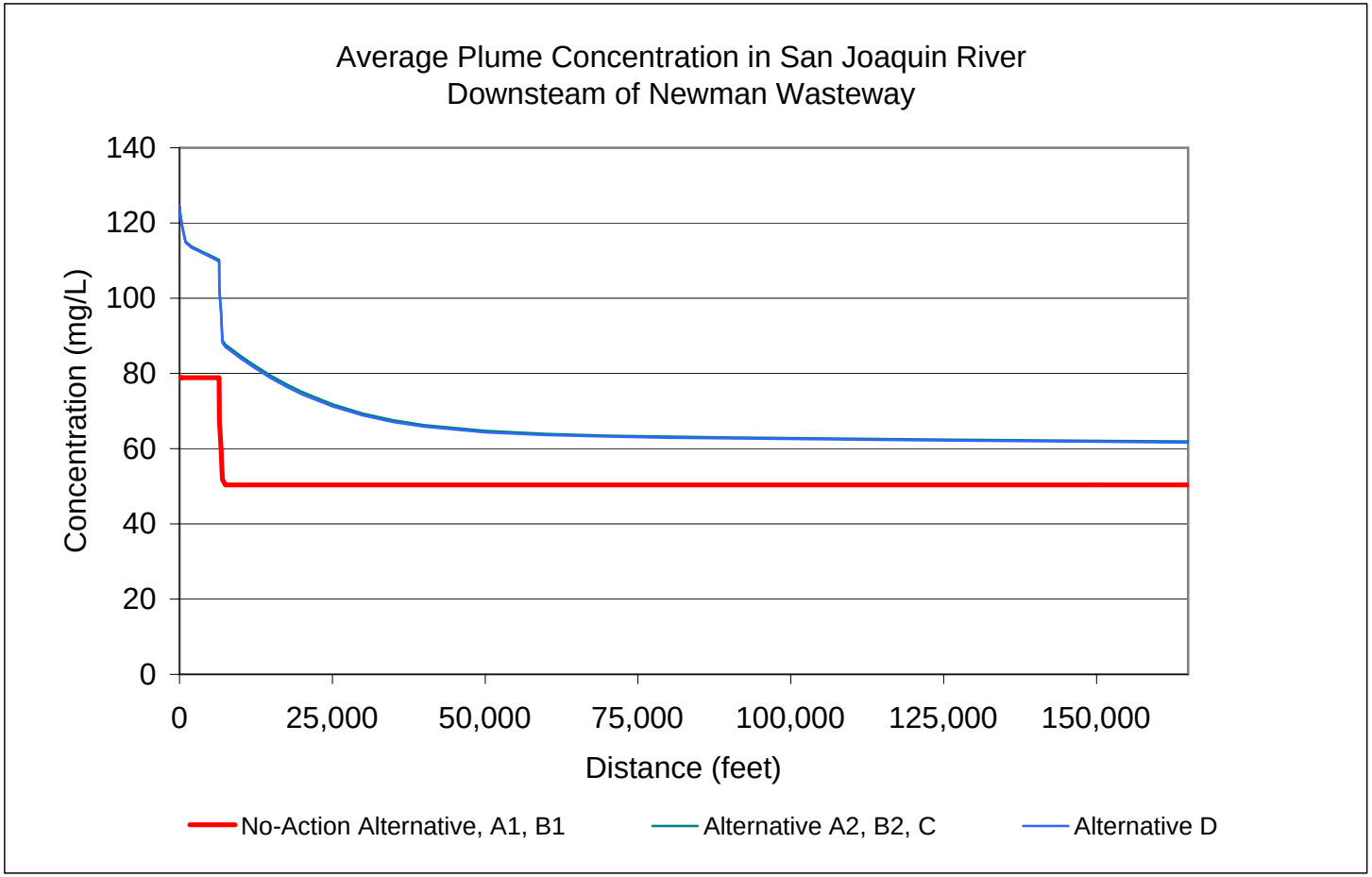
Critical Apr-P 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	71	248	71	203	14
Alternative A1	0	71	248	71	203	14
Alternative A2	0	71	248	71	203	14
Alternative B1	0	71	248	71	203	14
Alternative B2	0	71	248	71	203	14
Alternative C	562	123	248	71	203	14
Alternative D	562	123	248	71	203	14



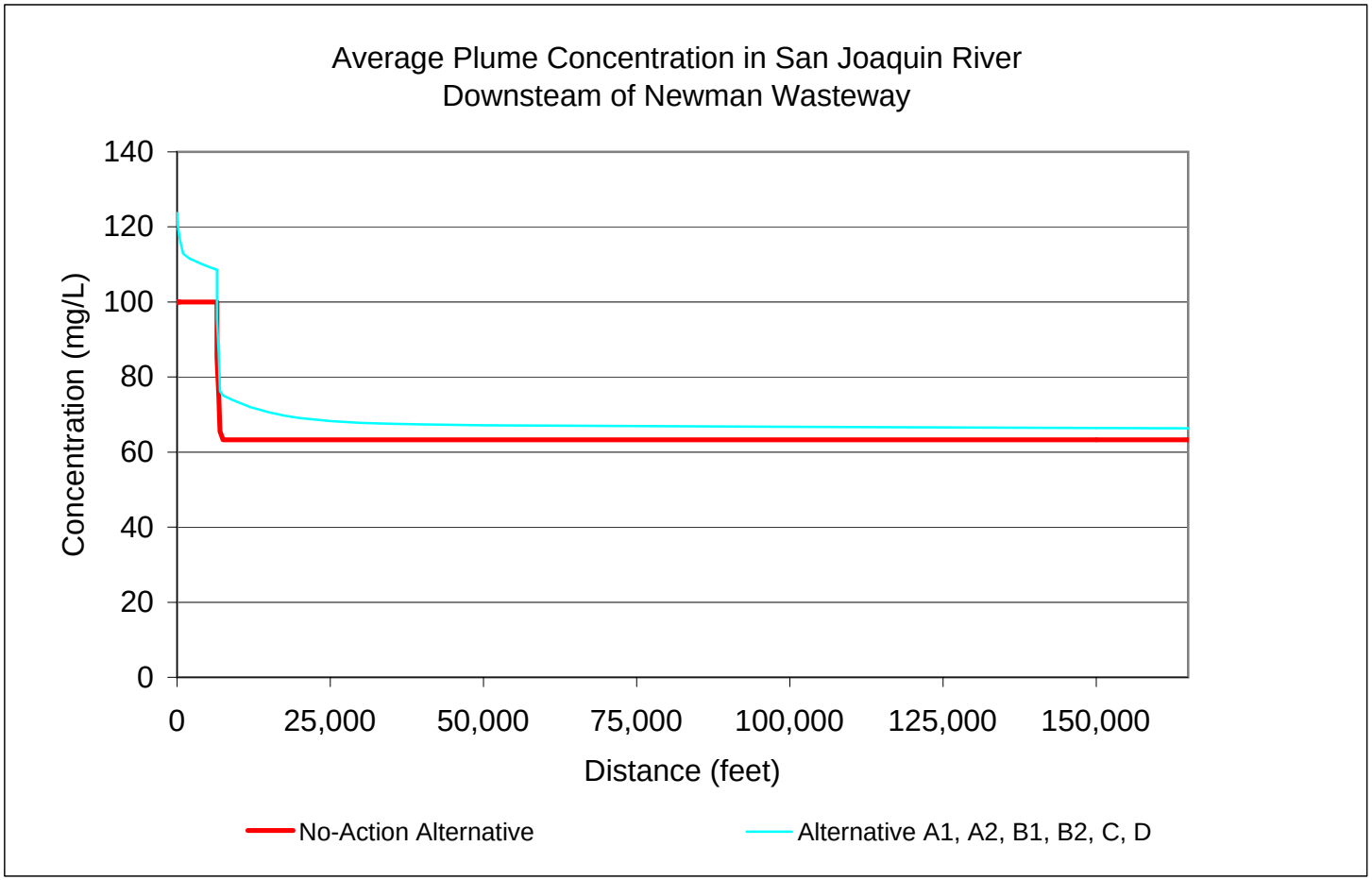
Critical May-P 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	79	230	79	143	5
Alternative A1	0	79	230	79	143	5
Alternative A2	0	79	230	79	143	5
Alternative B1	450	124	230	79	143	5
Alternative B2	450	124	230	79	143	5
Alternative C	476	124	230	79	143	5
Alternative D	476	124	230	79	143	5



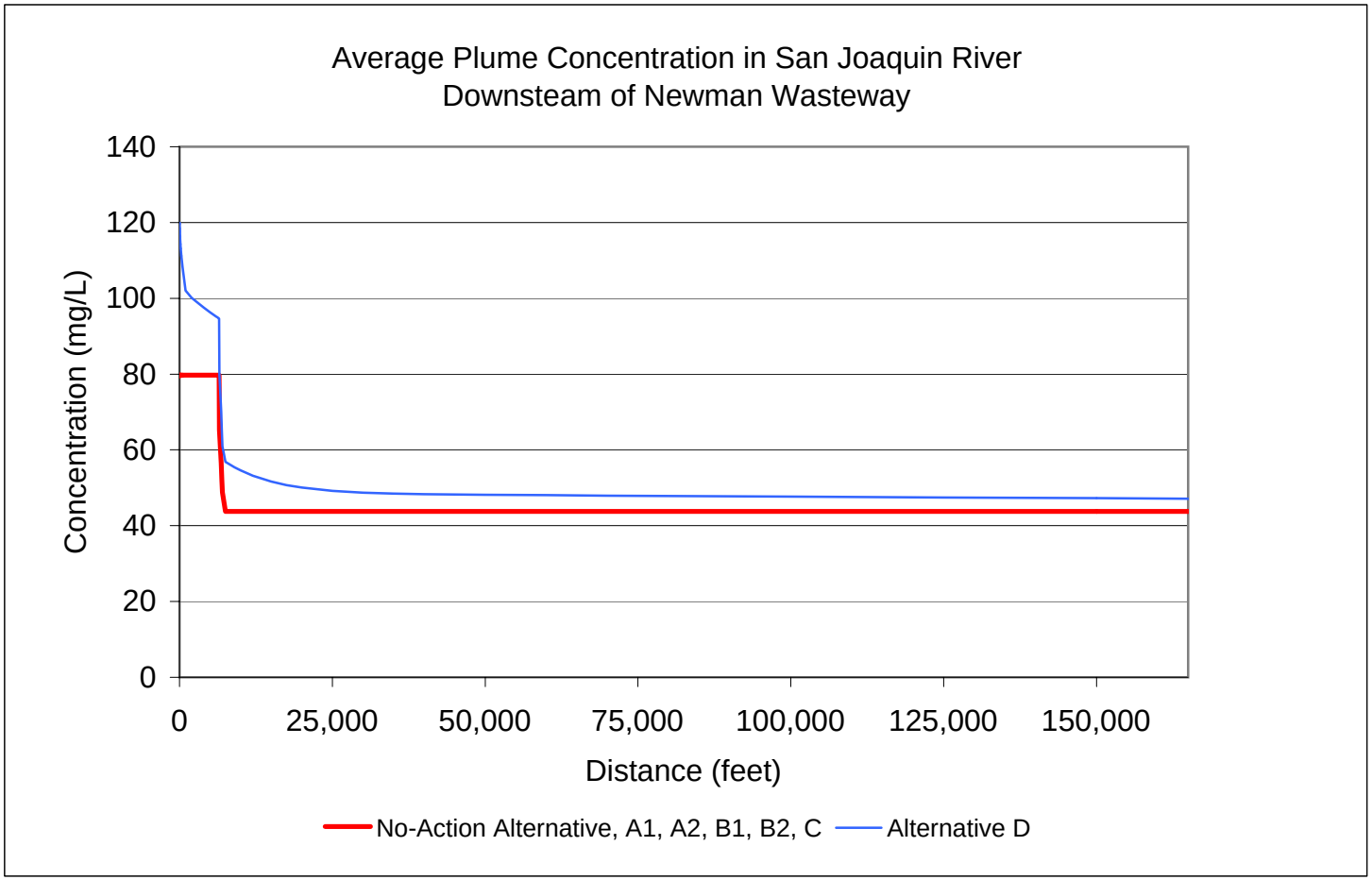
Critical May 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	79	230	79	143	5
Alternative A1	0	79	230	79	143	5
Alternative A2	516	124	230	79	143	5
Alternative B1	0	79	230	79	143	5
Alternative B2	516	124	230	79	143	5
Alternative C	516	124	230	79	143	5
Alternative D	503	124	230	79	143	5



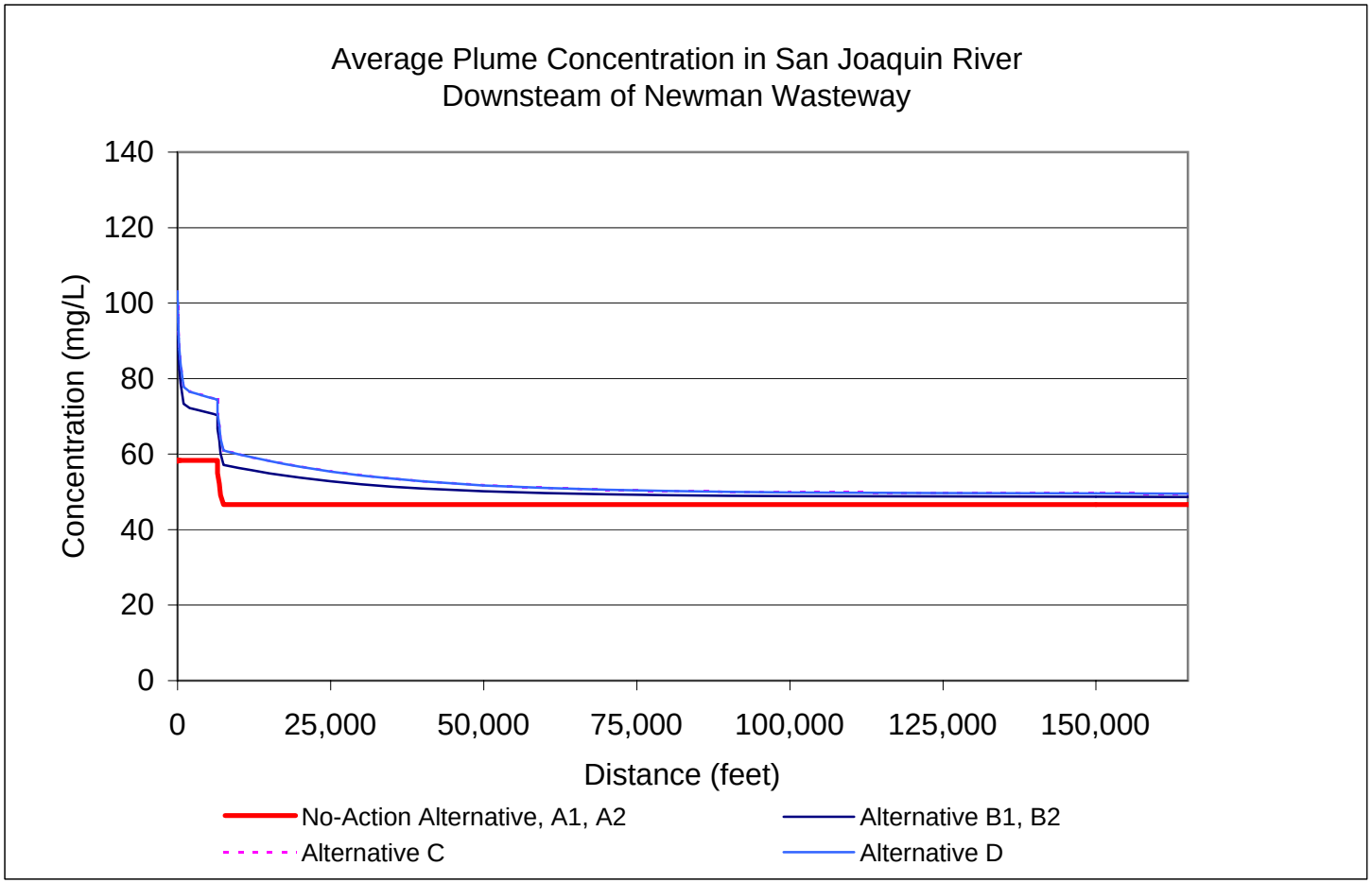
Critical June 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	100	219	100	146	8
Alternative A1	164	124	219	100	146	8
Alternative A2	164	124	219	100	146	8
Alternative B1	164	124	219	100	146	8
Alternative B2	164	124	219	100	146	8
Alternative C	164	124	219	100	146	8
Alternative D	164	124	219	100	146	8



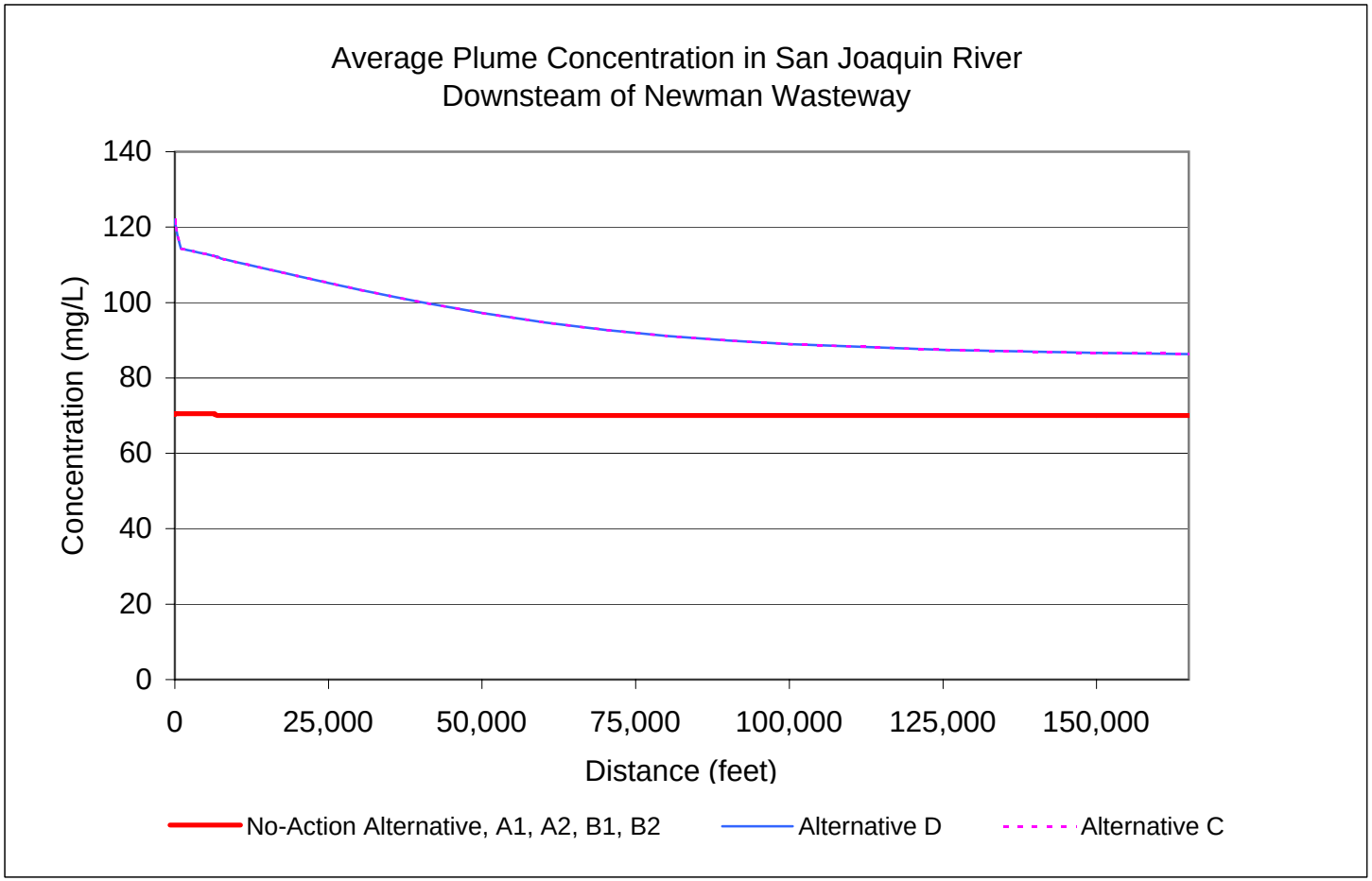
Critical Oct 1992

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	80	184	80	208	12
Alternative A1	0	80	184	80	208	12
Alternative A2	0	80	184	80	208	12
Alternative B1	0	80	184	80	208	12
Alternative B2	0	80	184	80	208	12
Alternative C	0	80	184	80	208	12
Alternative D	155	120	184	80	208	12



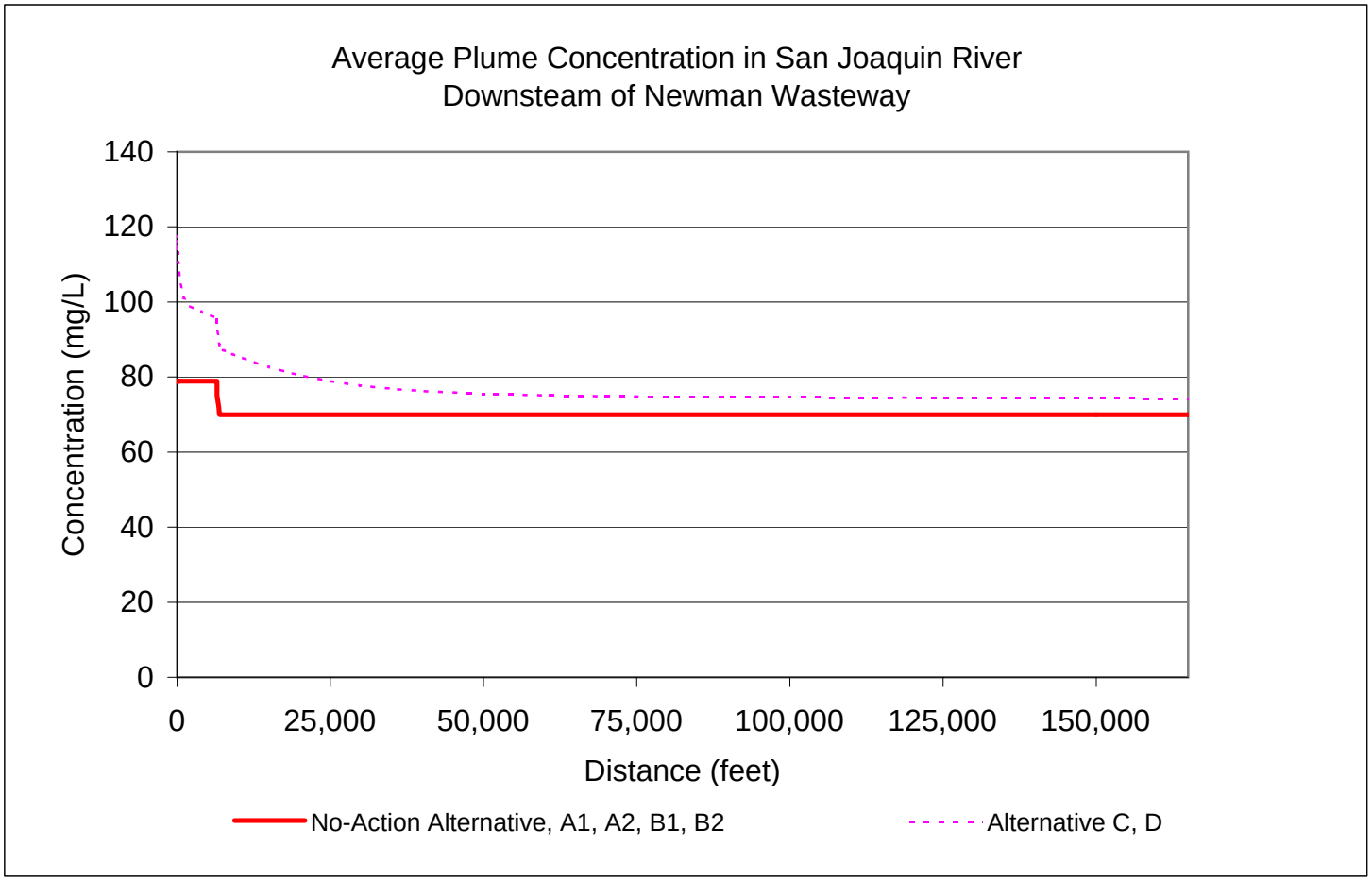
Wet March 1993

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	58	1316	58	438	11
Alternative A1	0	58	1316	58	438	11
Alternative A2	0	58	1316	58	438	11
Alternative B1	332	101	1316	58	438	11
Alternative B2	332	101	1316	58	438	11
Alternative C	471	103	1316	58	438	11
Alternative D	469	103	1316	58	438	11



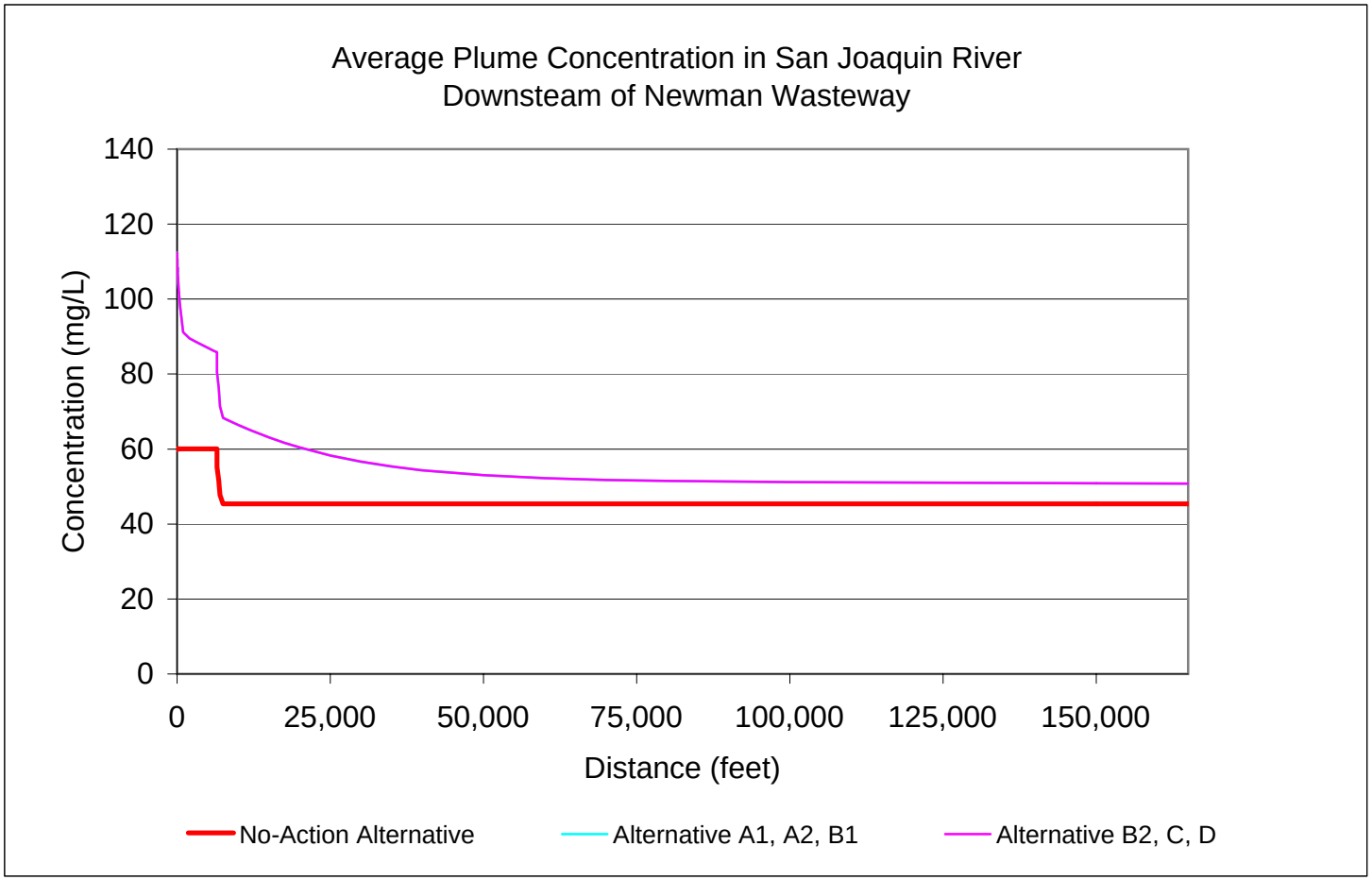
Wet April 1993

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	71	731	71	7	14
Alternative A1	0	71	731	71	7	14
Alternative A2	0	71	731	71	7	14
Alternative B1	0	71	731	71	7	14
Alternative B2	0	71	731	71	7	14
Alternative C	1908	122	731	71	7	14
Alternative D	1907	122	731	71	7	14



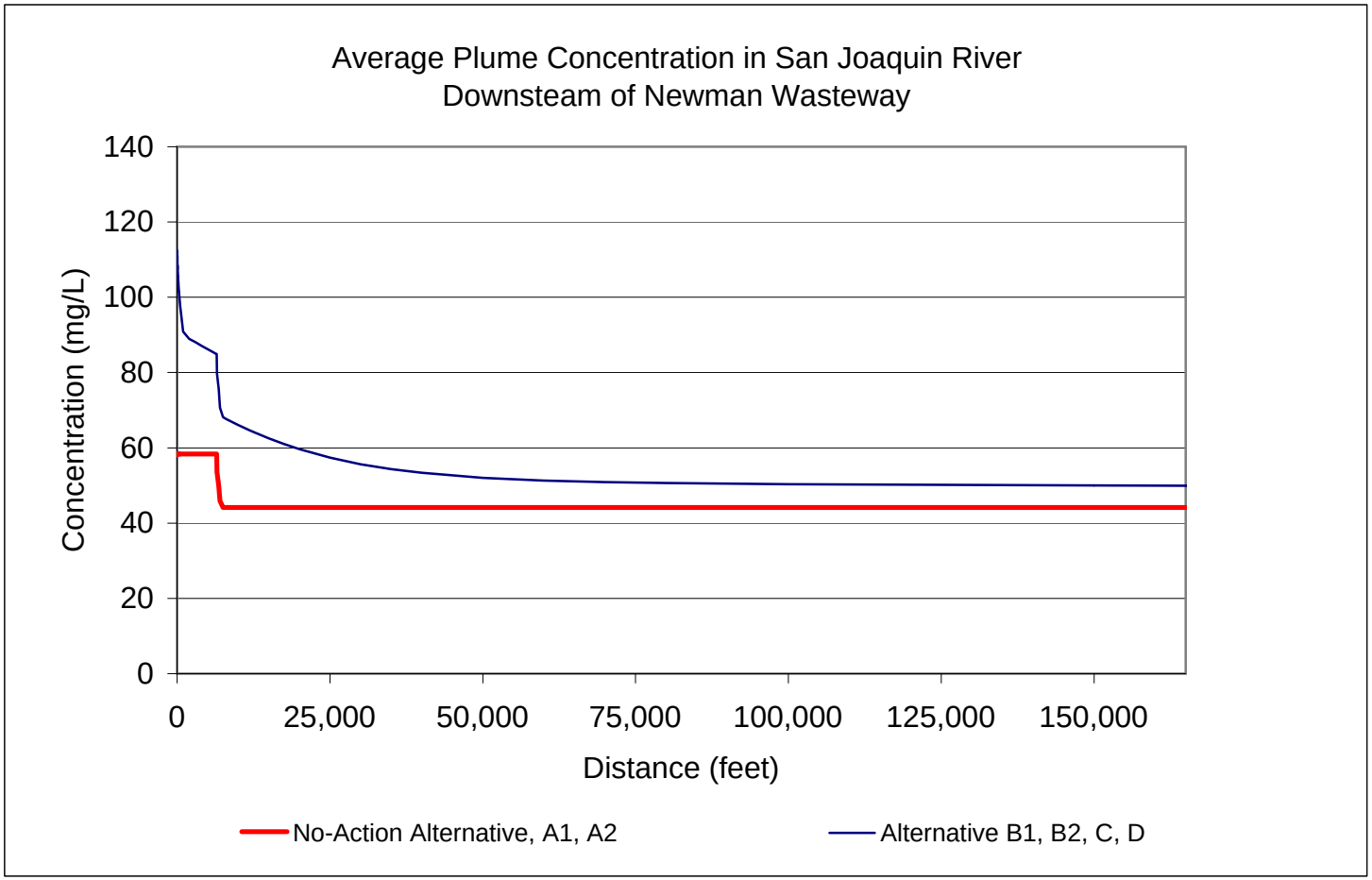
Wet May 1993

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	79	479	79	65	5
Alternative A1	0	79	479	79	65	5
Alternative A2	0	79	479	79	65	5
Alternative B1	0	79	479	79	65	5
Alternative B2	0	79	479	79	65	5
Alternative C	335	118	479	79	65	5
Alternative D	335	118	479	79	65	5



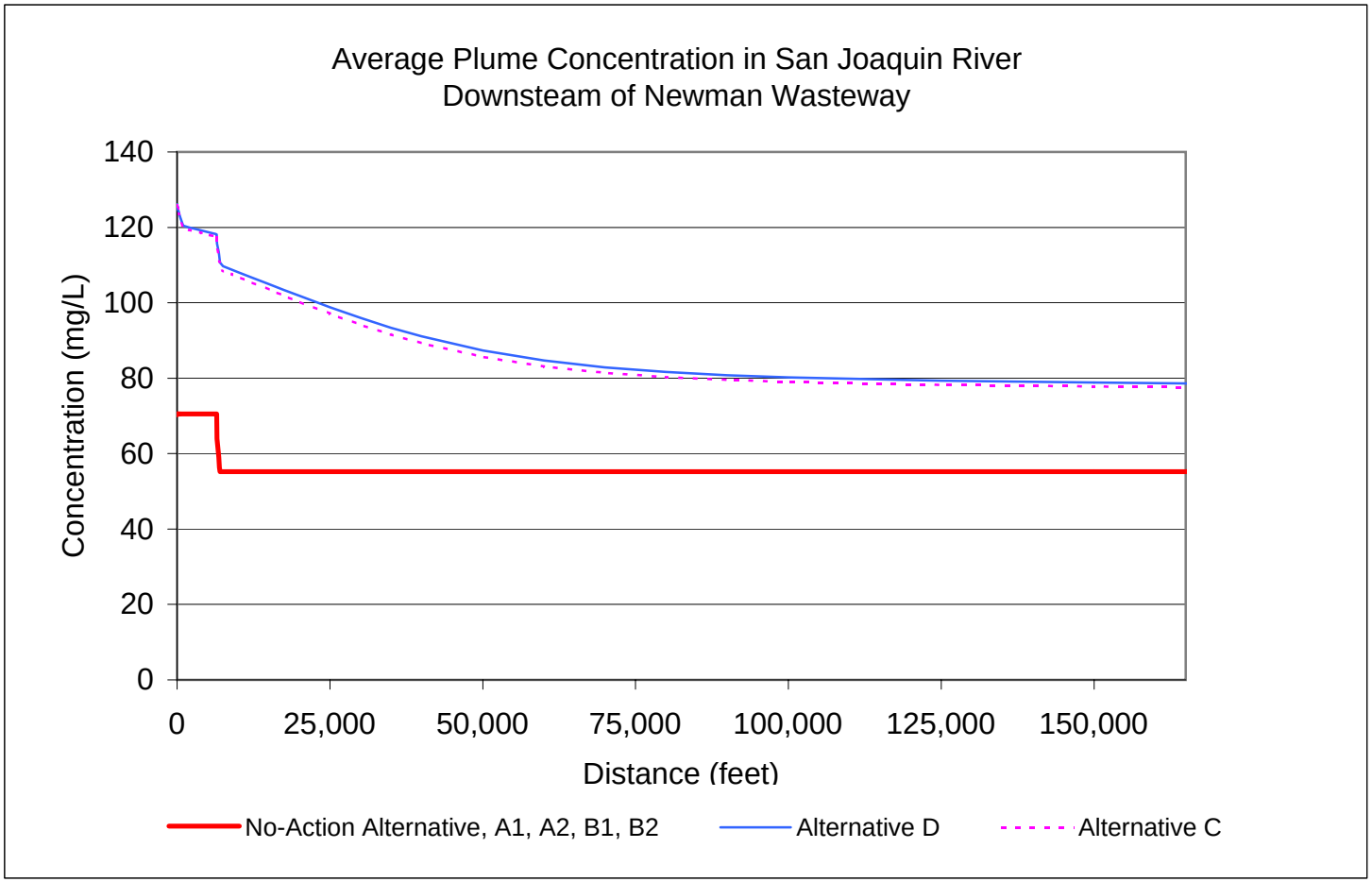
Dry Feb 2002

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	60	637	60	307	15
Alternative A1	494	112	637	60	307	15
Alternative A2	494	112	637	60	307	15
Alternative B1	494	112	637	60	307	15
Alternative B2	495	112	637	60	307	15
Alternative C	495	112	637	60	307	15
Alternative D	495	112	637	60	307	15



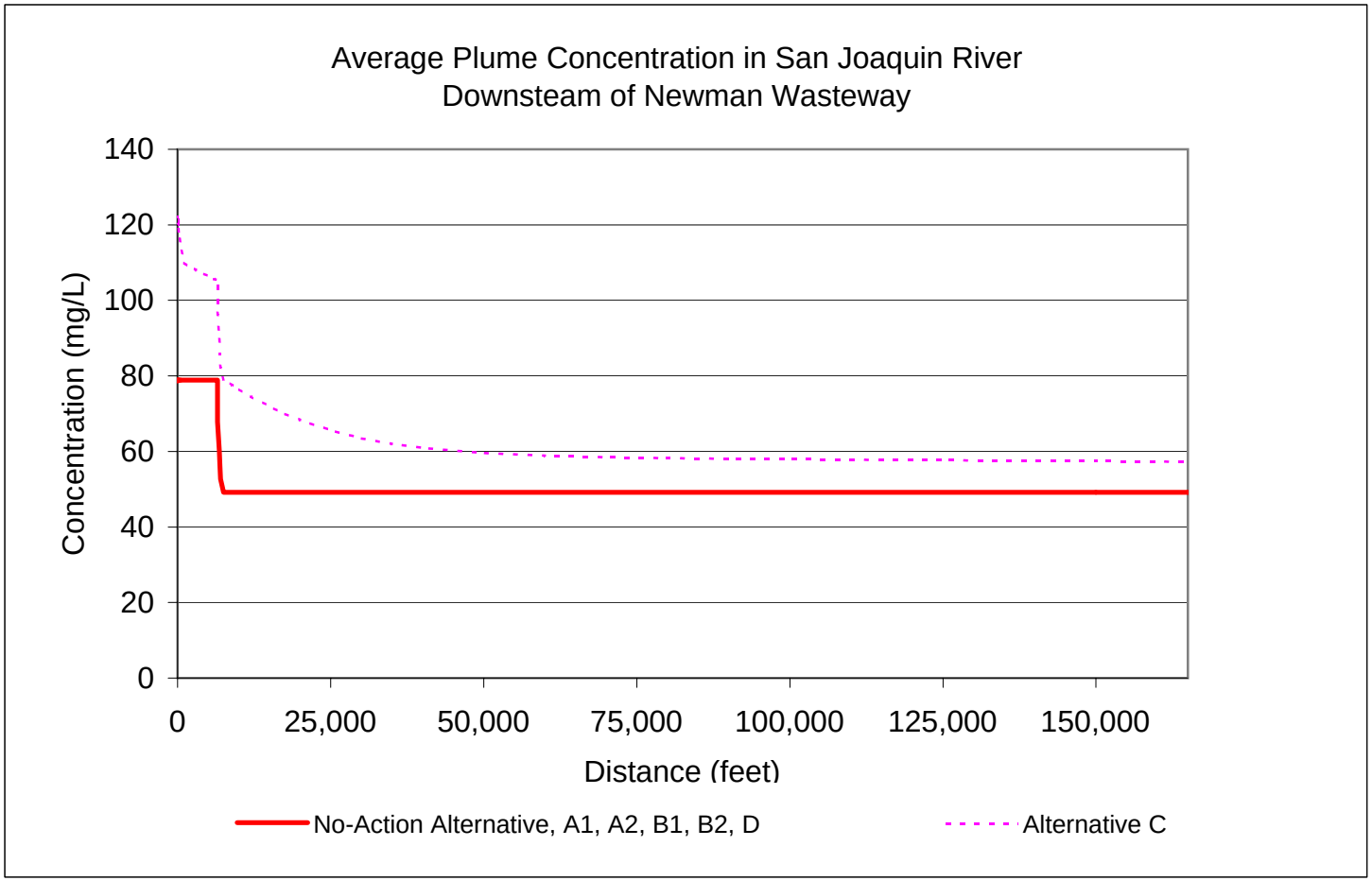
Dry Mar 2002

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	58	577	58	249	11
Alternative A1	0	58	577	58	249	11
Alternative A2	0	58	577	58	249	11
Alternative B1	462	112	577	58	249	11
Alternative B2	462	112	577	58	249	11
Alternative C	462	112	577	58	249	11
Alternative D	462	112	577	58	249	11



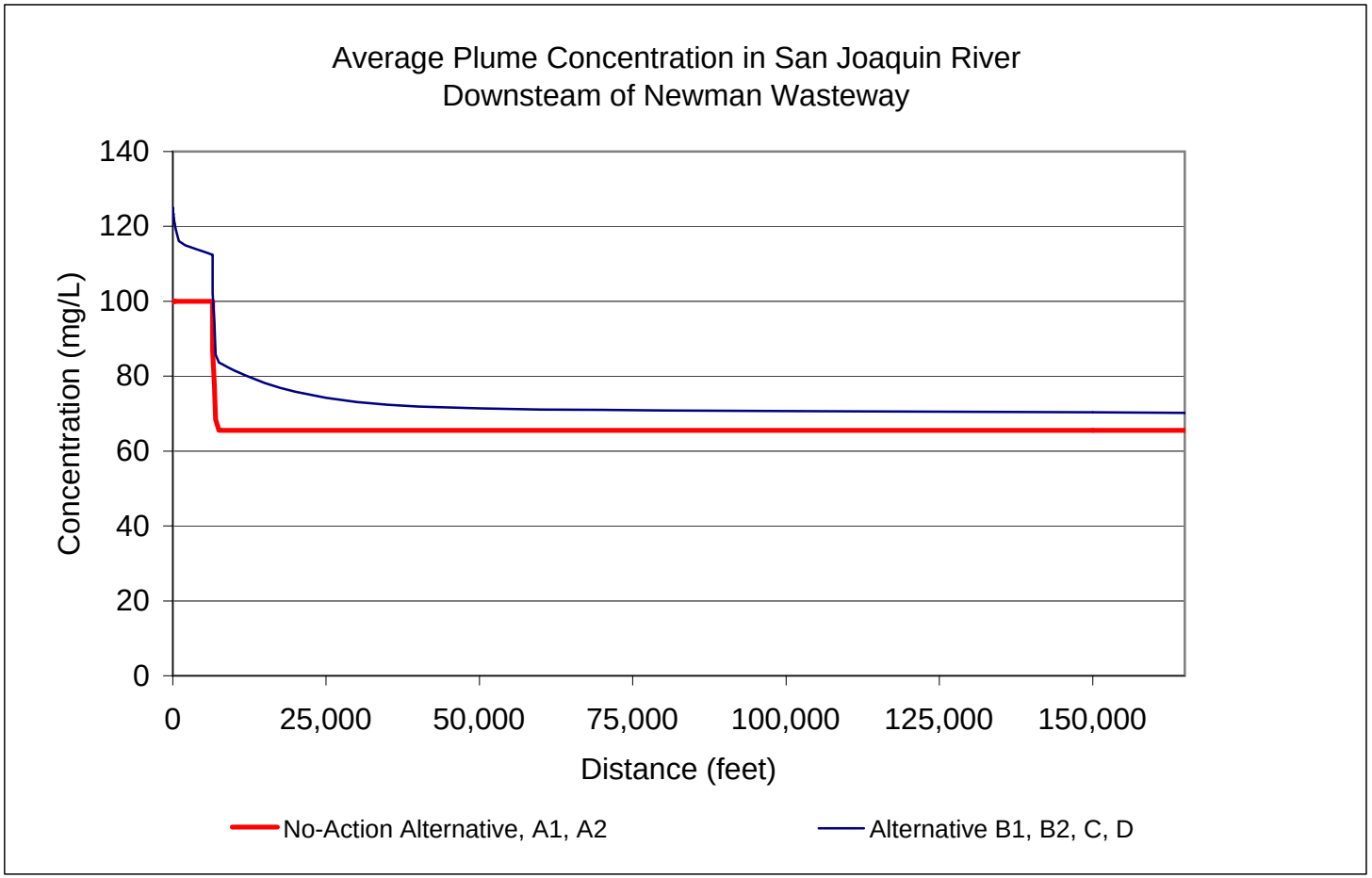
Dry Apr 2002

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	71	263	71	98	14
Alternative A1	0	71	263	71	98	14
Alternative A2	0	71	263	71	98	14
Alternative B1	0	71	263	71	98	14
Alternative B2	0	71	263	71	98	14
Alternative C	1150	126	263	71	98	14
Alternative D	1224	126	263	71	98	14



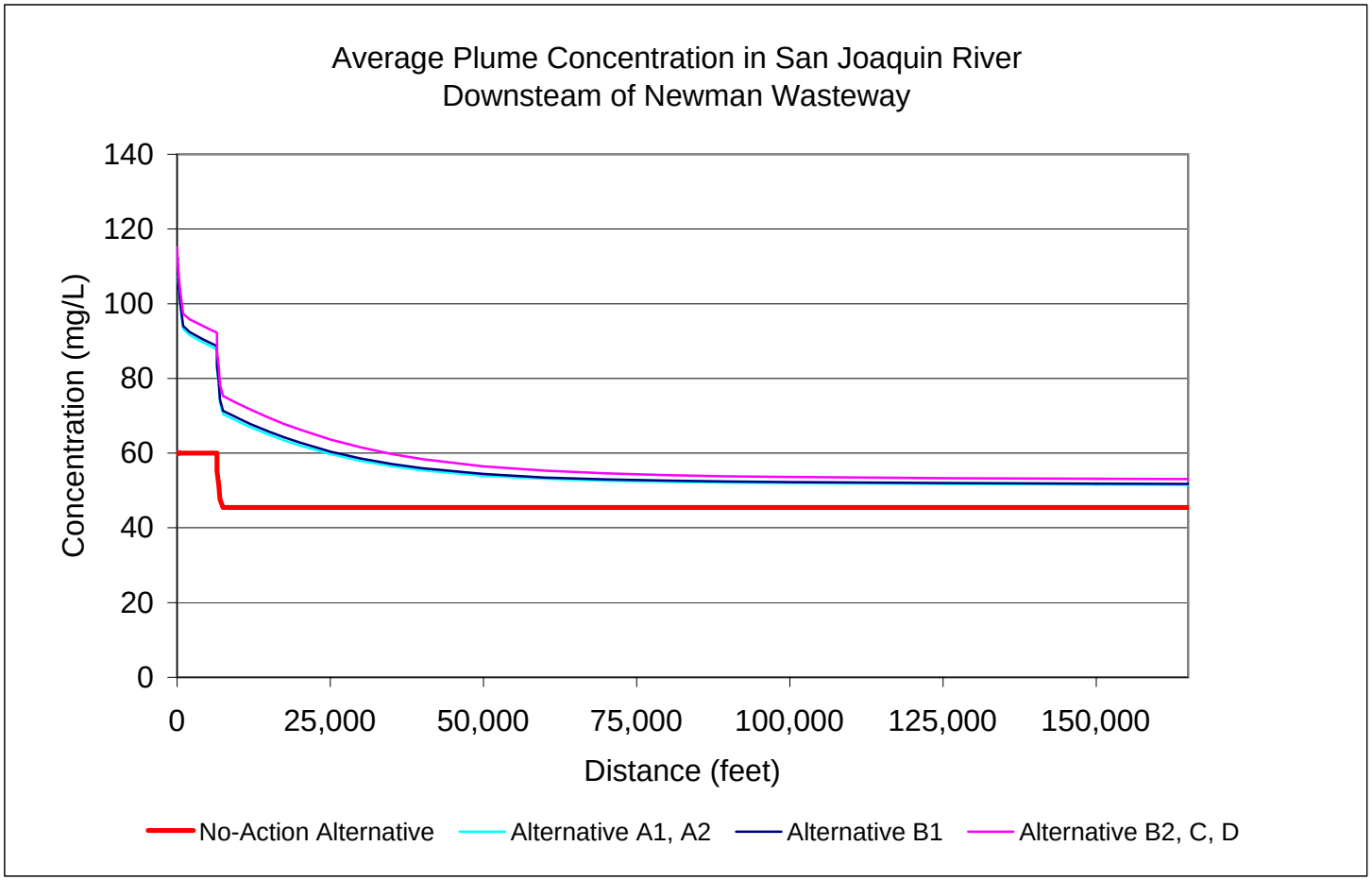
Dry May 2002

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	79	332	79	221	5
Alternative A1	0	79	332	79	221	5
Alternative A2	0	79	332	79	221	5
Alternative B1	0	79	332	79	221	5
Alternative B2	0	79	332	79	221	5
Alternative C	497	122	332	79	221	5
Alternative D	525	122	332	79	221	5



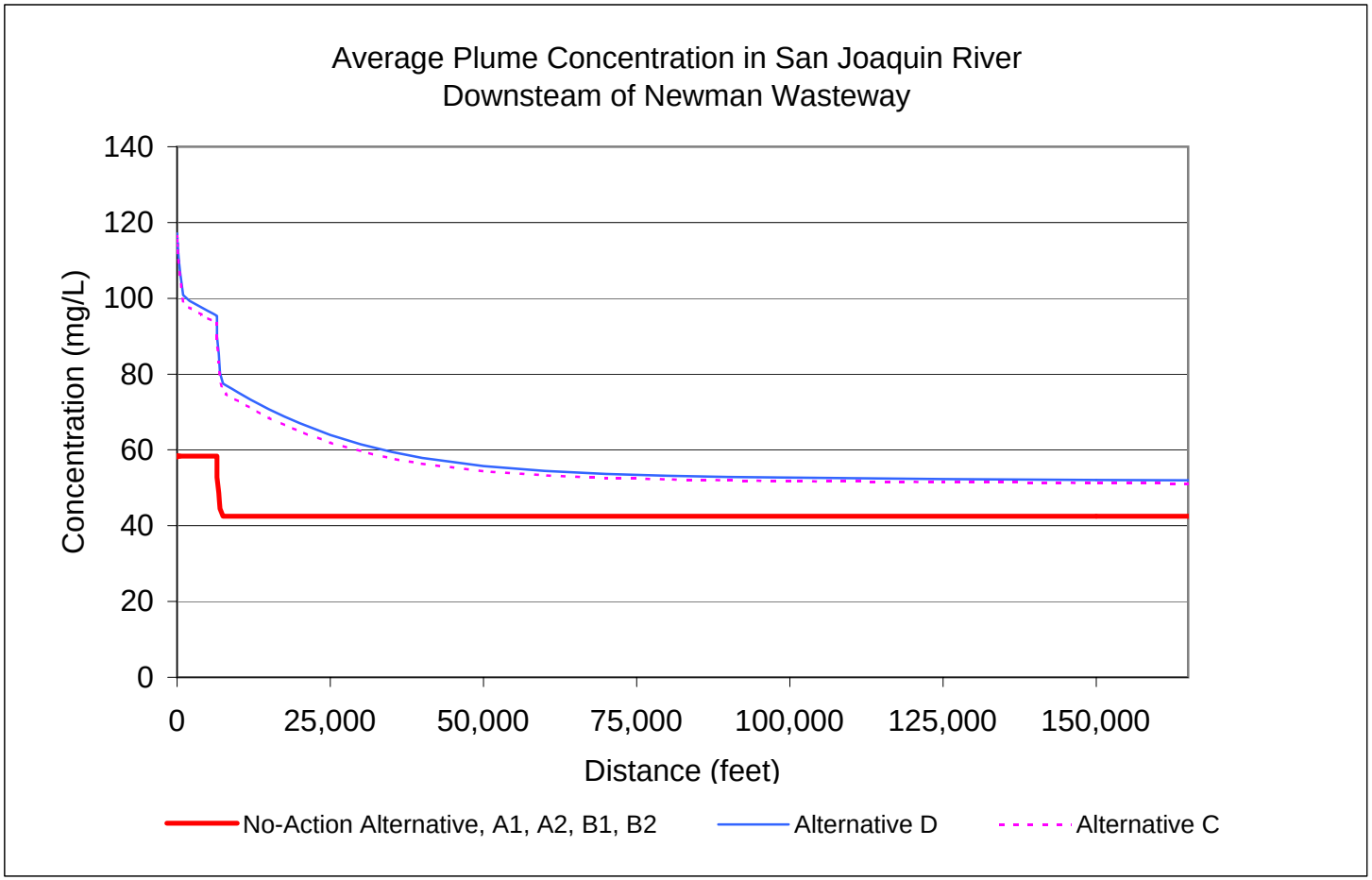
Dry Jun 2002

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	100	296	100	178	8
Alternative A1	0	100	296	100	178	8
Alternative A2	0	100	296	100	178	8
Alternative B1	313	125	296	100	178	8
Alternative B2	313	125	296	100	178	8
Alternative C	313	125	296	100	178	8
Alternative D	313	125	296	100	178	8



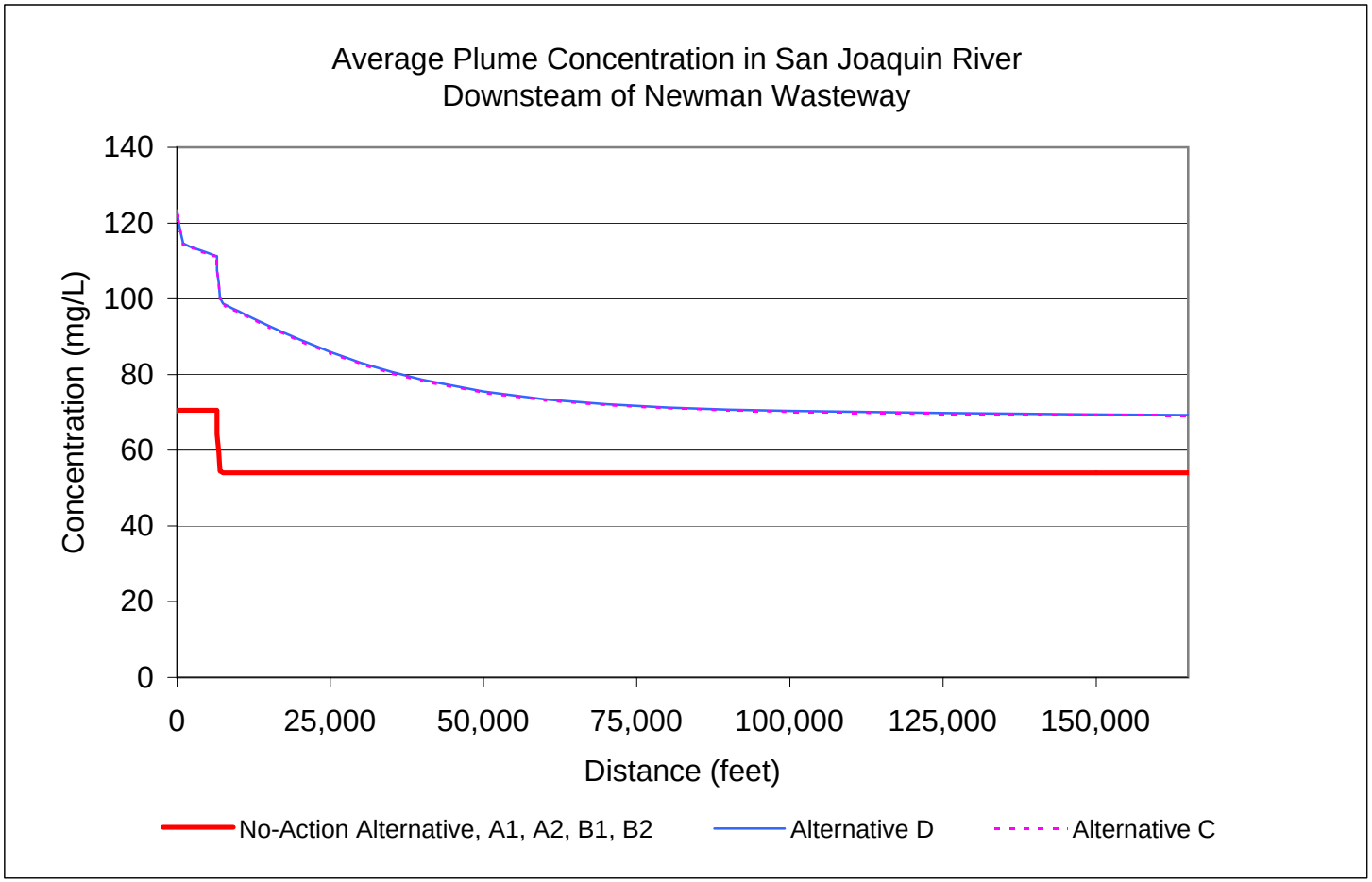
Below Normal Feb 2003

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	60	601	60	287	15
Alternative A1	526	113	601	60	287	15
Alternative A2	526	113	601	60	287	15
Alternative B1	550	114	601	60	287	15
Alternative B2	663	115	601	60	287	15
Alternative C	663	115	601	60	287	15
Alternative D	663	115	601	60	287	15



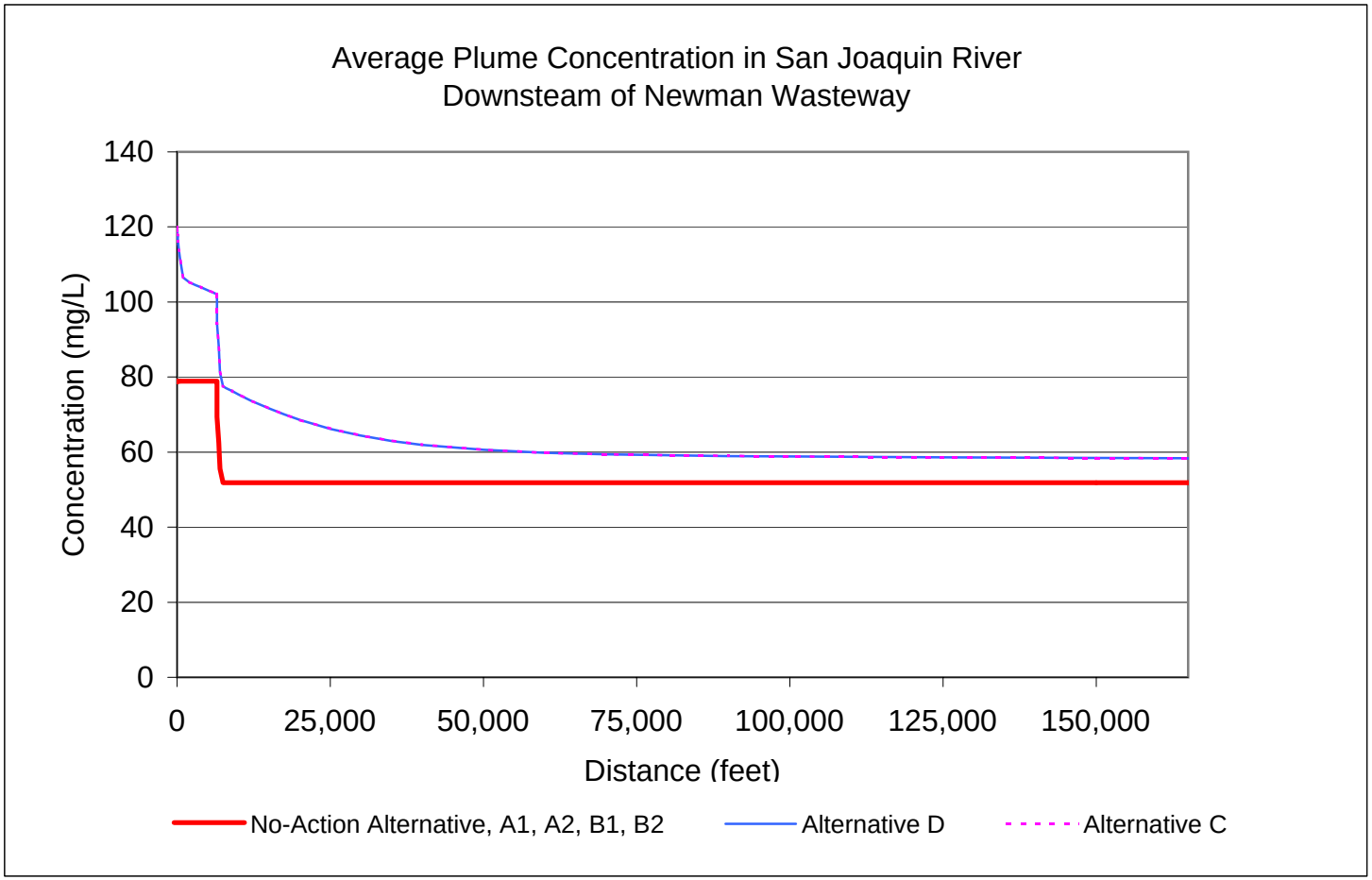
Below Normal Mar 2003

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	58	479	58	243	11
Alternative A1	0	58	479	58	243	11
Alternative A2	0	58	479	58	243	11
Alternative B1	0	58	479	58	243	11
Alternative B2	0	58	479	58	243	11
Alternative C	613	116	479	58	243	11
Alternative D	674	117	479	58	243	11



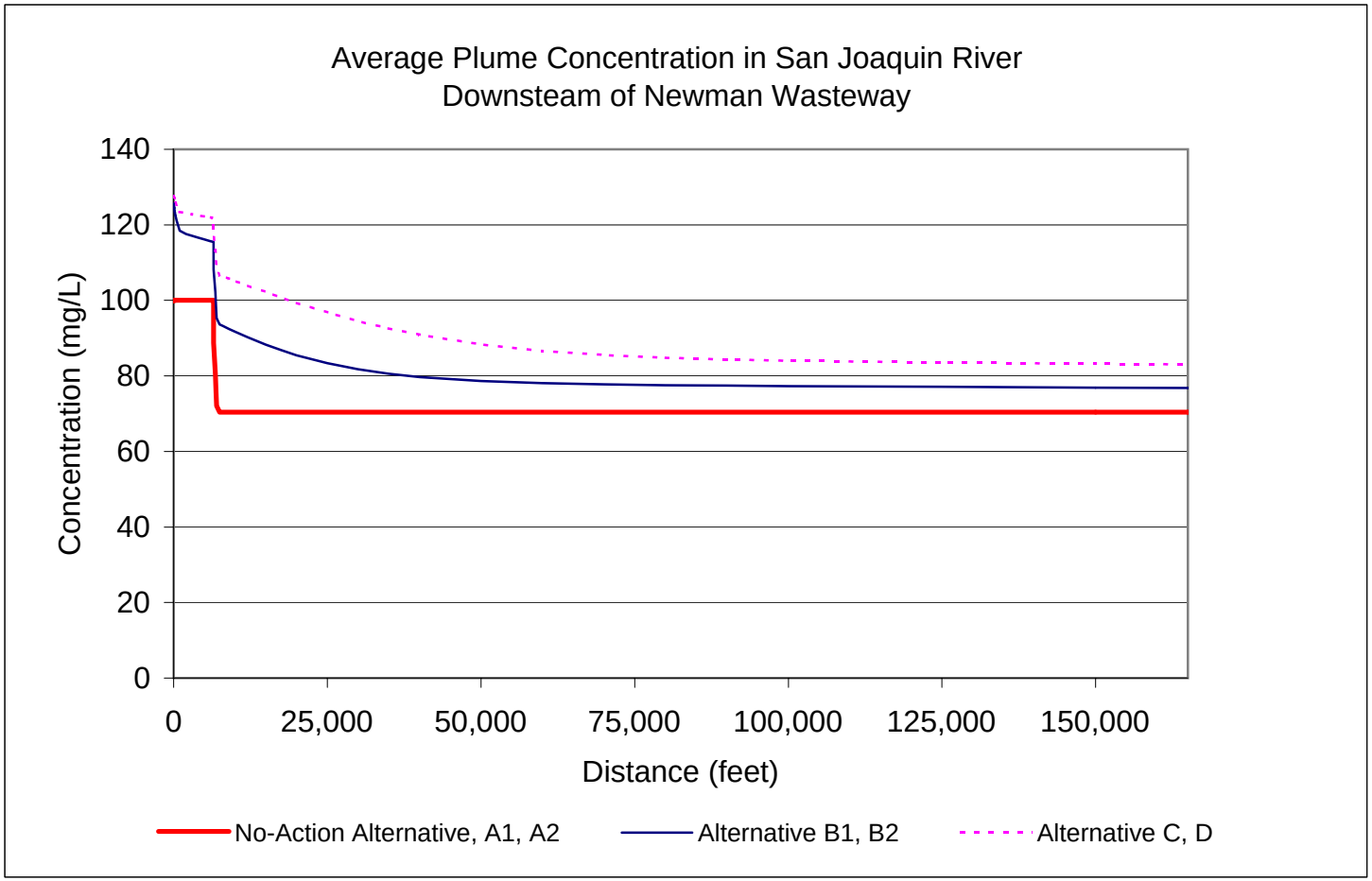
Below Normal Apr 2003

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	71	364	71	150	14
Alternative A1	0	71	364	71	150	14
Alternative A2	0	71	364	71	150	14
Alternative B1	0	71	364	71	150	14
Alternative B2	0	71	364	71	150	14
Alternative C	960	123	364	71	150	14
Alternative D	973	123	364	71	150	14



Below Normal May 2003

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	79	462	79	264	5
Alternative A1	0	79	462	79	264	5
Alternative A2	0	79	462	79	264	5
Alternative B1	0	79	462	79	264	5
Alternative B2	0	79	462	79	264	5
Alternative C	520	120	462	79	264	5
Alternative D	519	120	462	79	264	5



Below Normal Jun 2003

Scenario	Recirc. Flow (cfs)	Initial Conc. In SJR at Newman (mg/L)	Upstream SJR		Merced	
			Flow (cfs)	Initial Conc. (mg/L)	Flow (cfs)	Initial Conc. (mg/L)
No-Action Alternative	0	100	346	100	165	8
Alternative A1	0	100	346	100	165	8
Alternative A2	0	100	346	100	165	8
Alternative B1	493	126	346	100	165	8
Alternative B2	493	126	346	100	165	8
Alternative C	1032	128	346	100	165	8
Alternative D	1032	128	346	100	165	8