FIGURE 36: IN-STREAM SEDIMENT & WATER QUALITY MONITORING SITES, MIDDLE BIG RIVER SUBBASIN

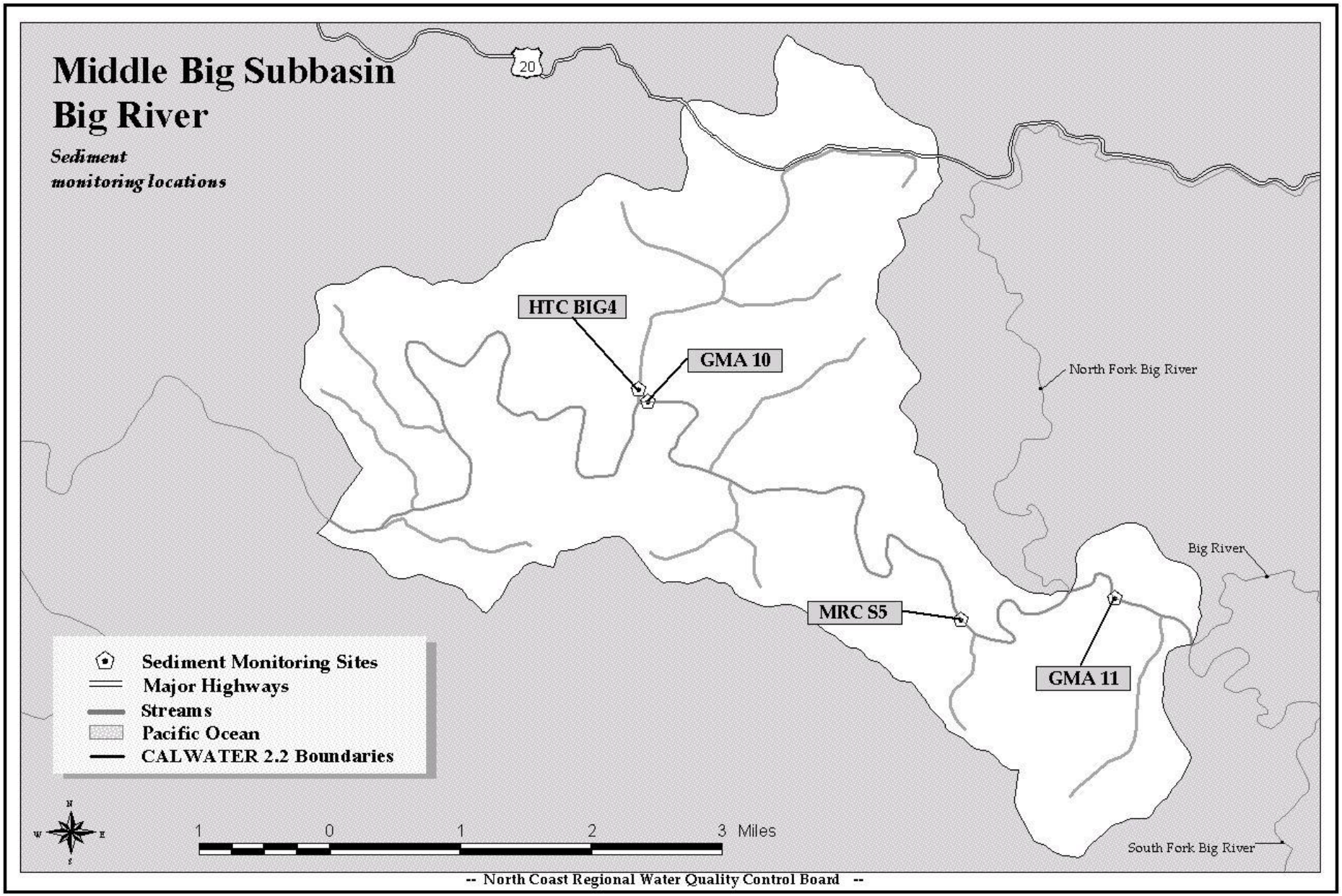


FIGURE 37: IN-STREAM SEDIMENT & WATER QUALITY MONITORING SITES, UPPER BIG RIVER SUBBASIN

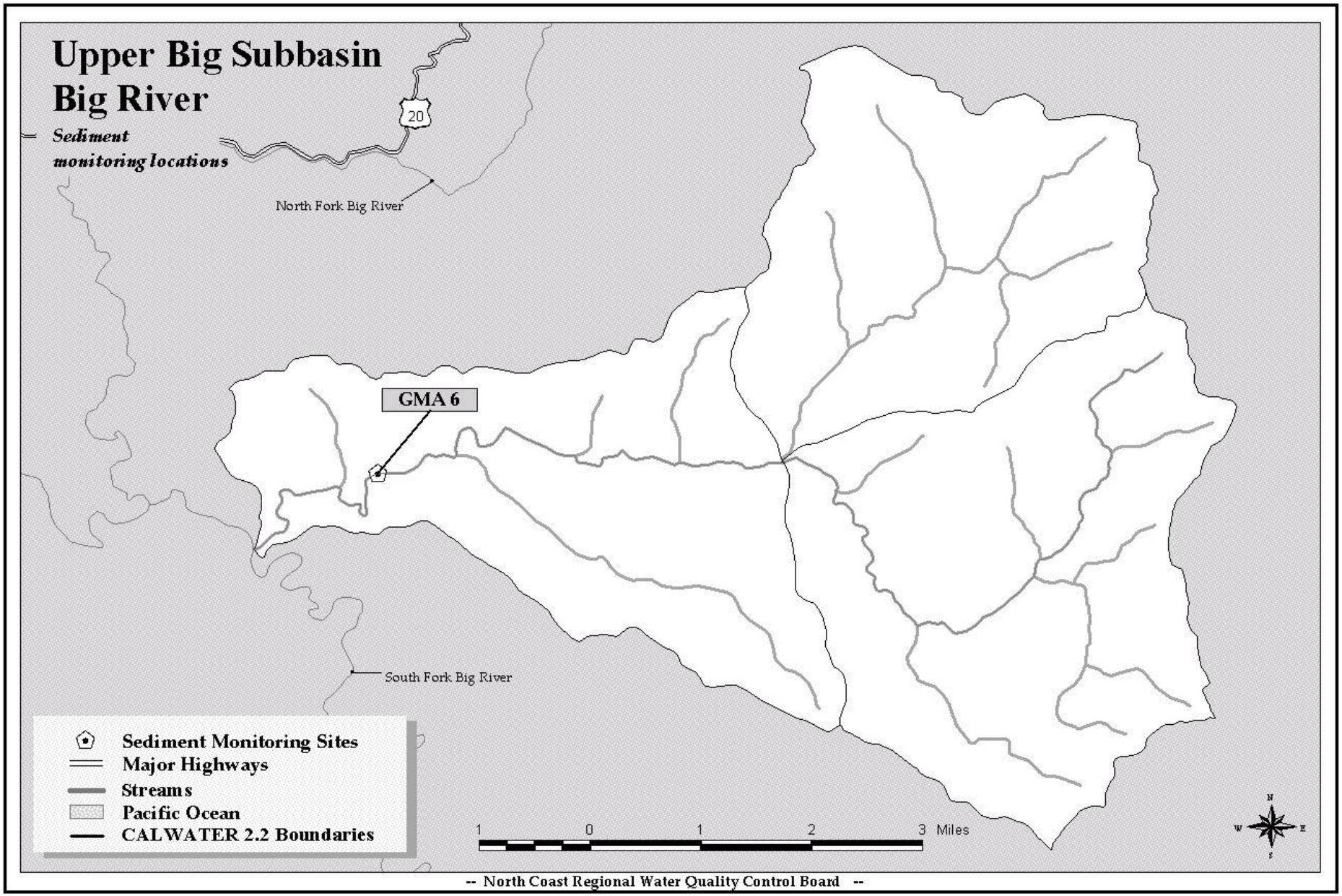


FIGURE 38: IN-STREAM SEDIMENT & WATER QUALITY MONITORING SITES, NORTH FORK BIG RIVER SUBBASIN

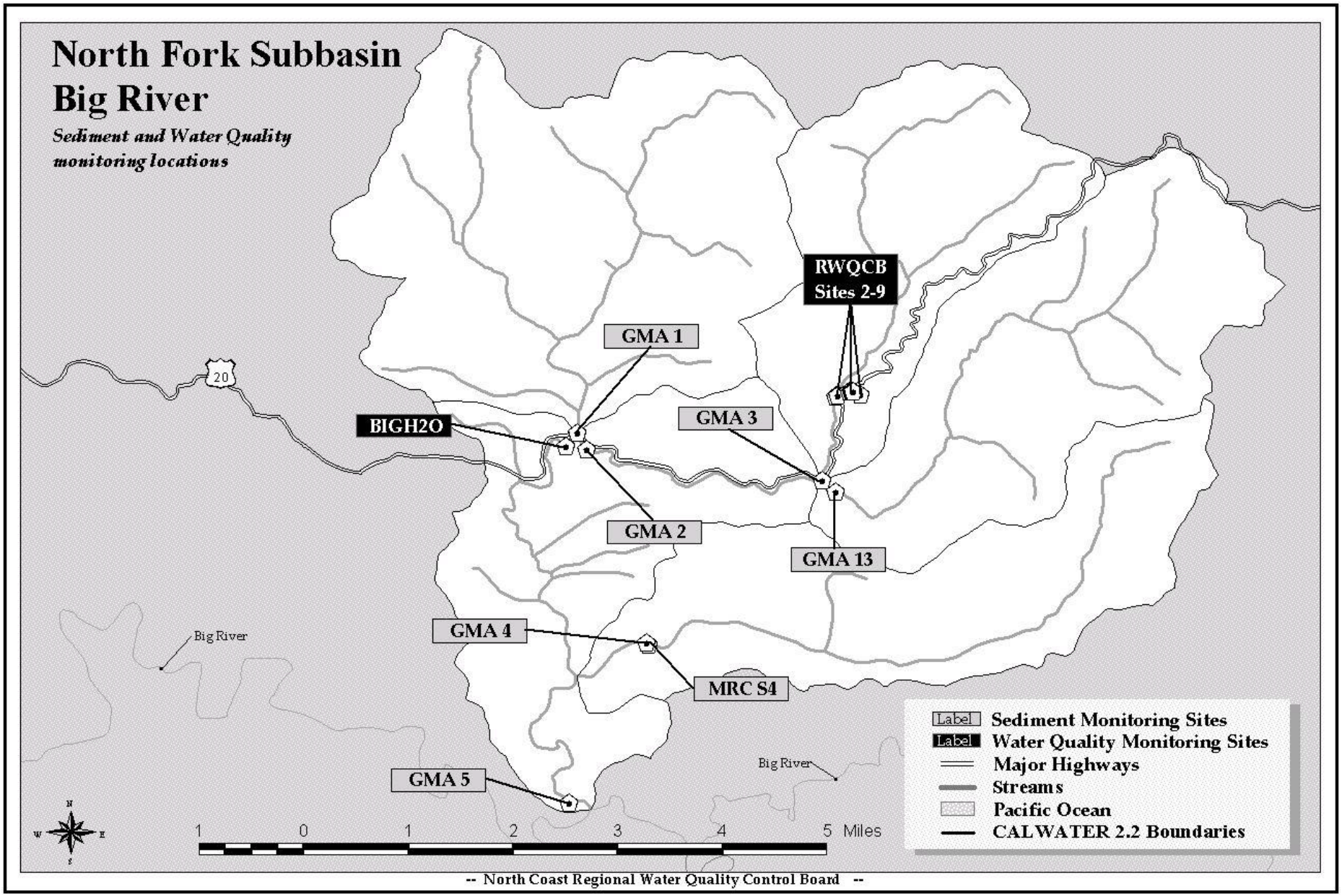


FIGURE 39: IN-STREAM SEDIMENT & WATER QUALITY MONITORING SITES, SOUTH FORK BIG RIVER SUBBASIN

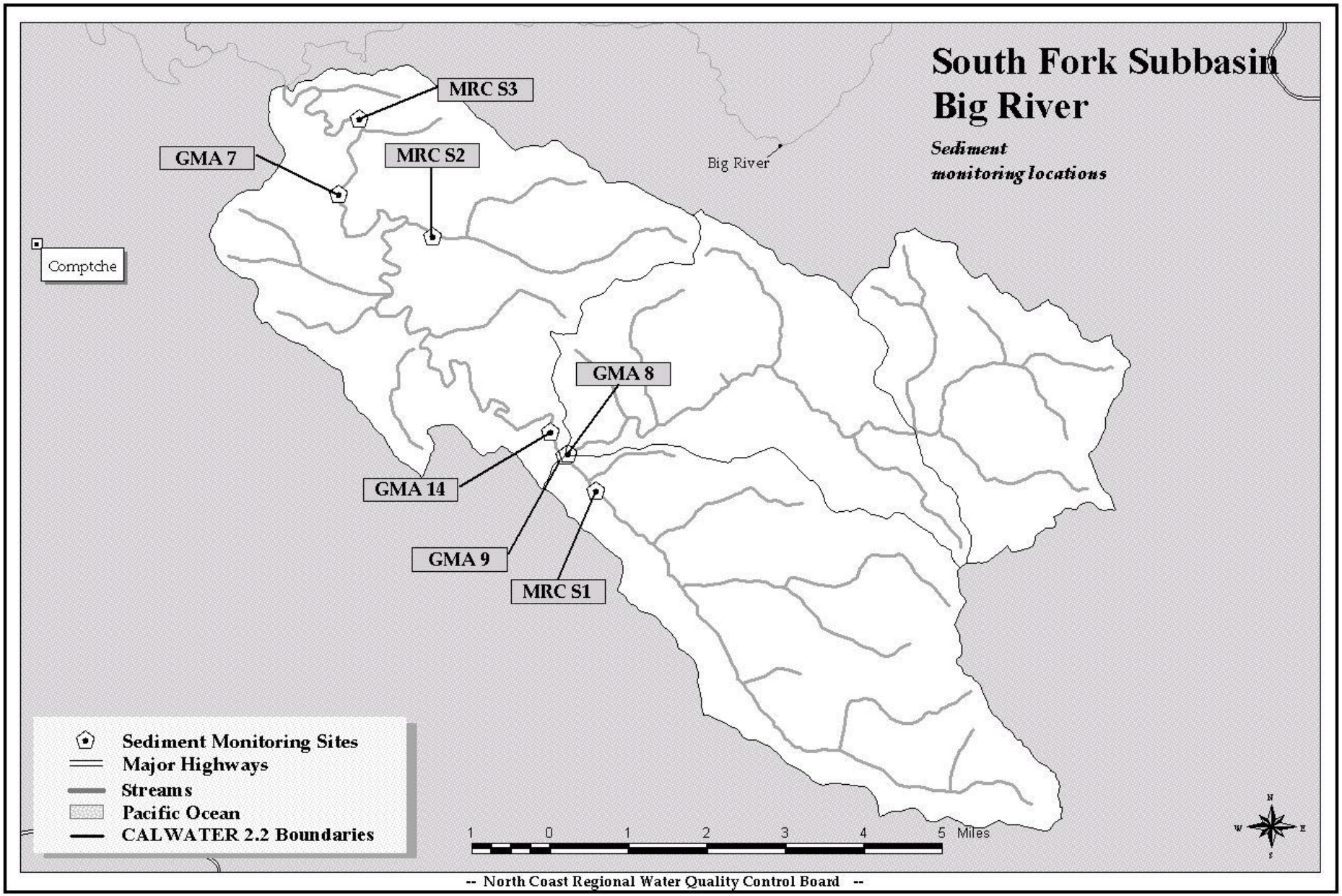


FIGURE 40: THALWEG PROFILE, SOUTH FORK BIG RIVER (MRC)

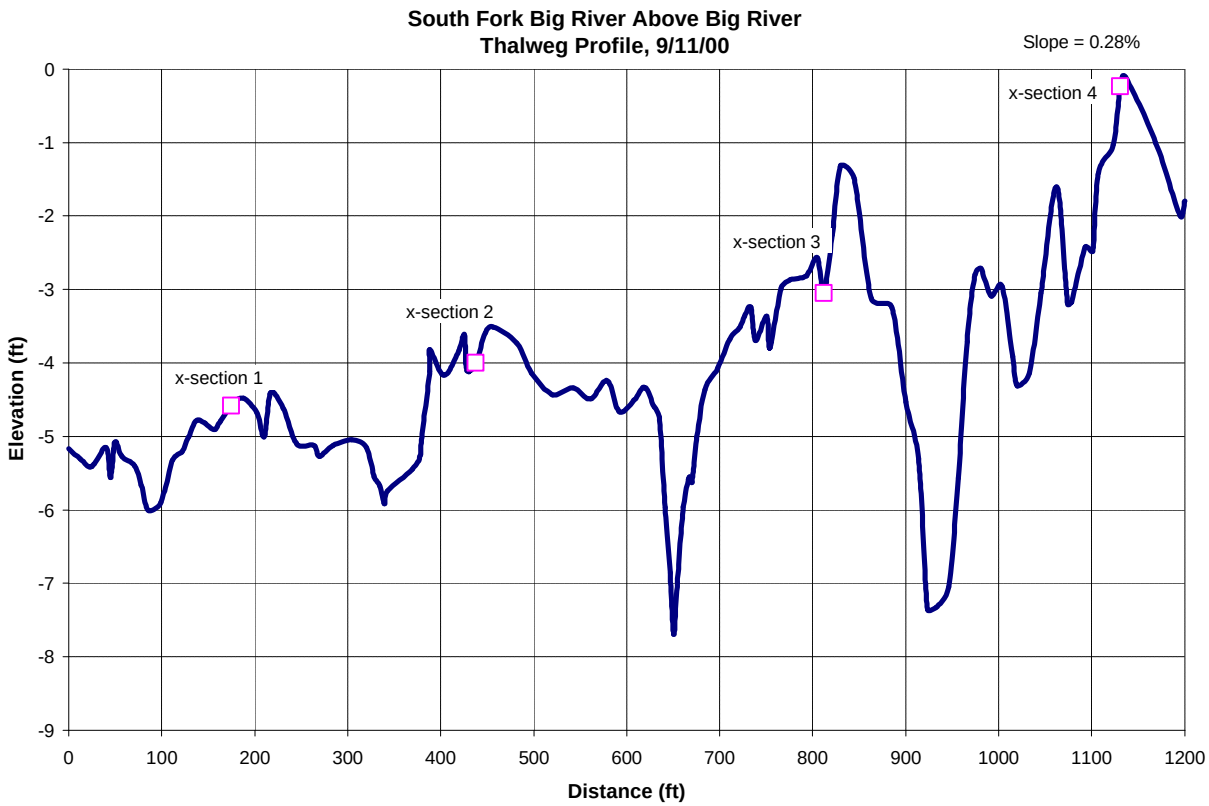


FIGURE 41: CROSS-SECTION 1, SOUTH FORK BIG RIVER (MRC)

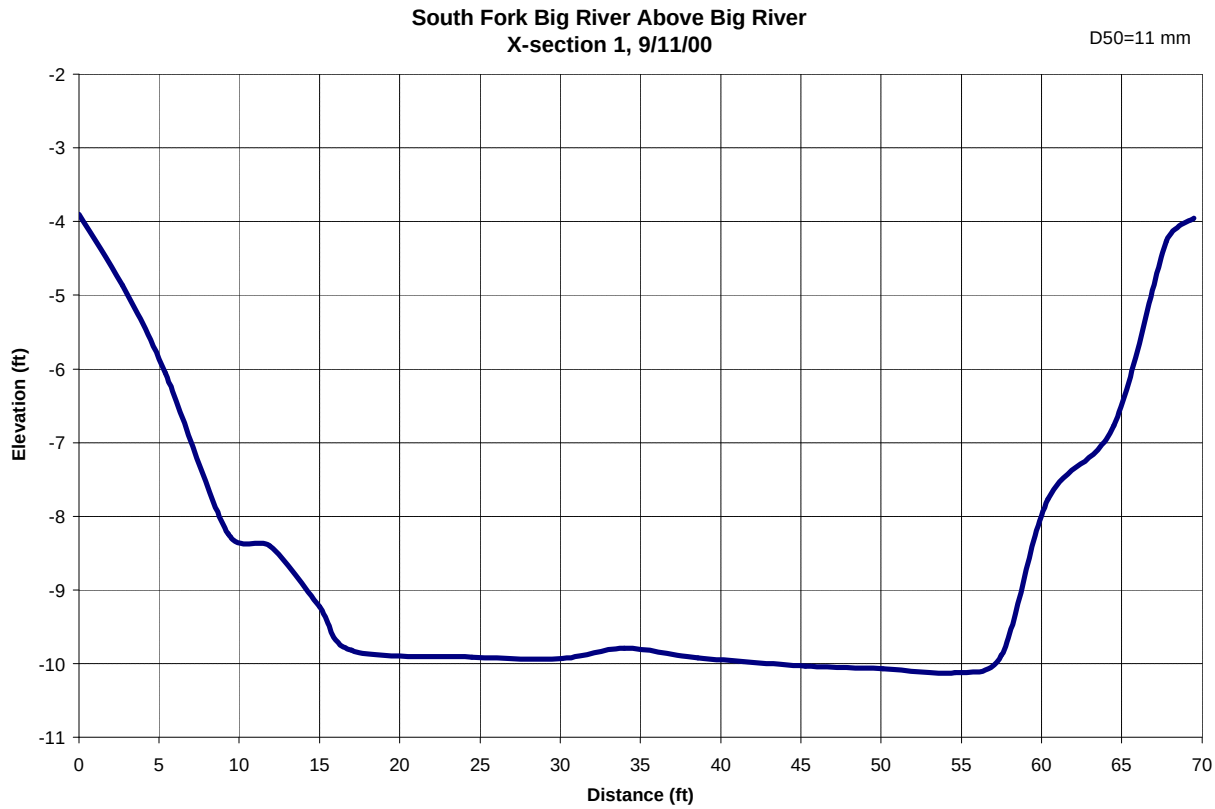


FIGURE 42: CROSS-SECTION 2, SOUTH FORK BIG RIVER (MRC)

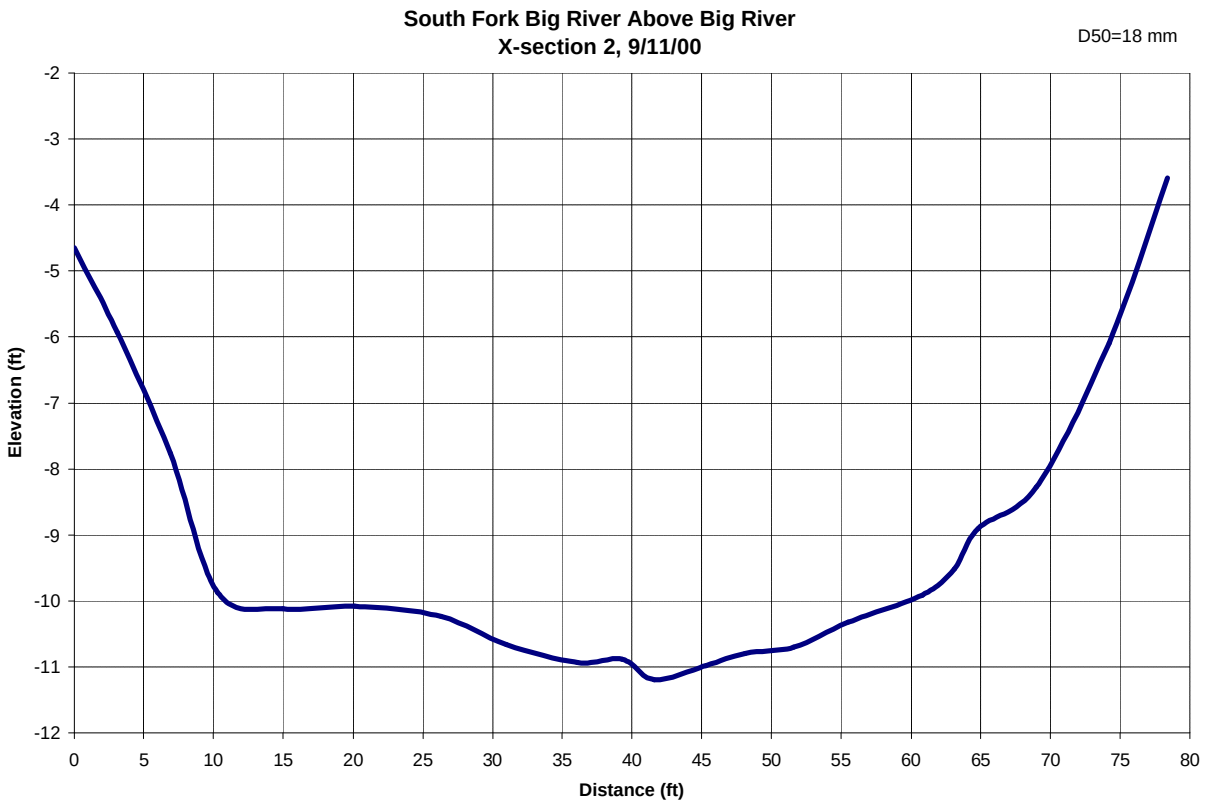


FIGURE 43: CROSS-SECTION 3, SOUTH FORK BIG RIVER (MRC)

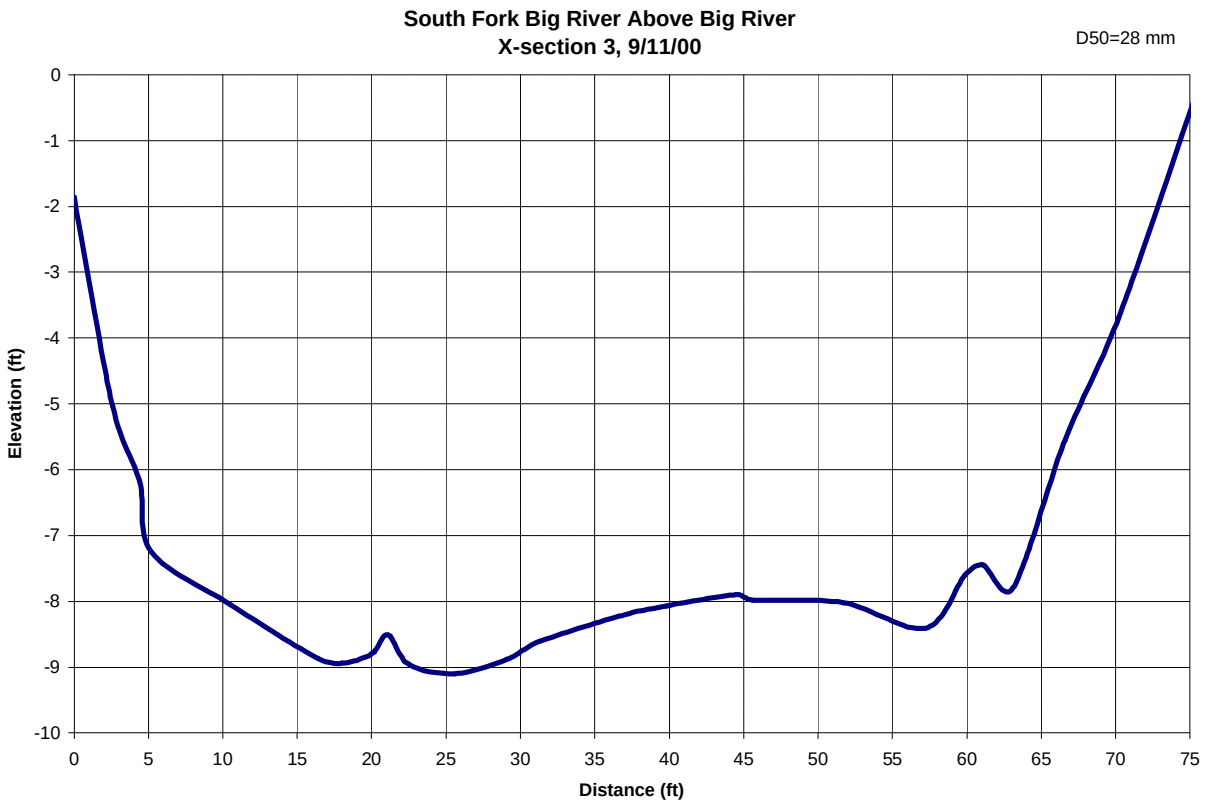


FIGURE 44: CROSS-SECTION 4, SOUTH FORK BIG RIVER (MRC)

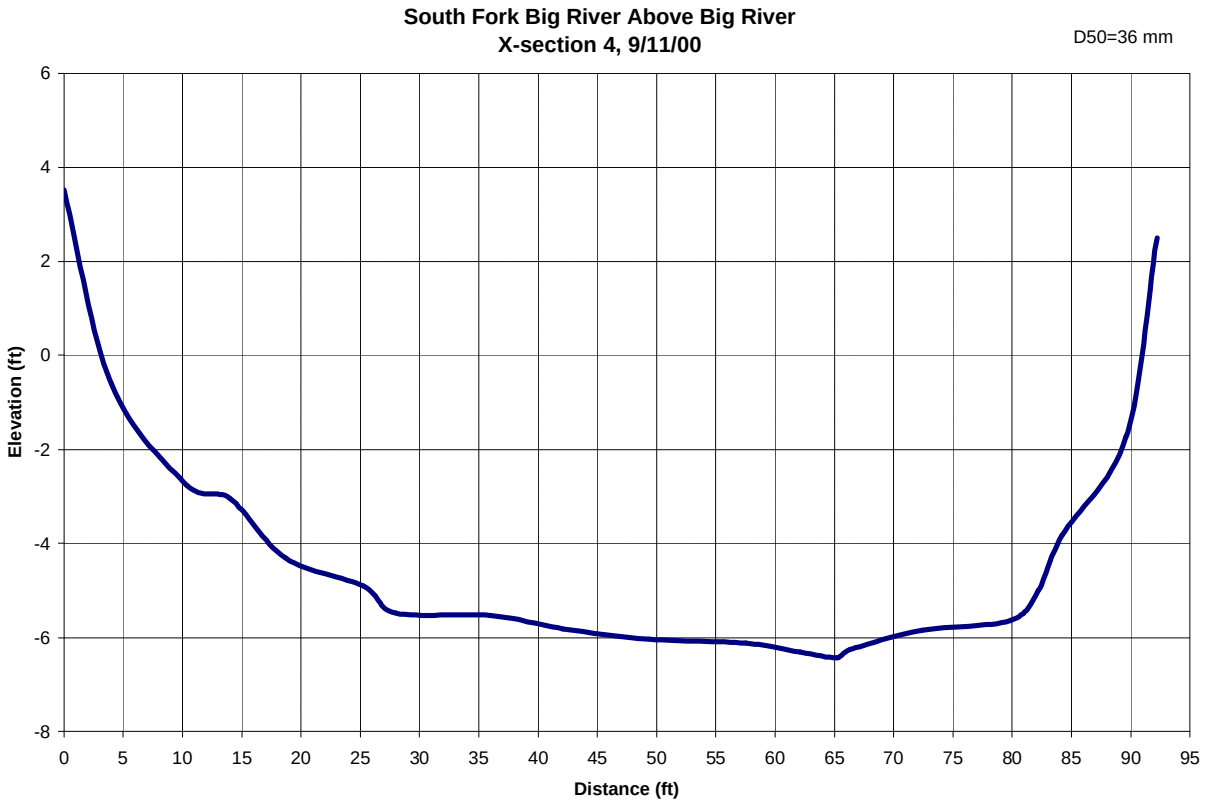


FIGURE 45: THALWEG PROFILE, LOWER RAMON CREEK (MRC)

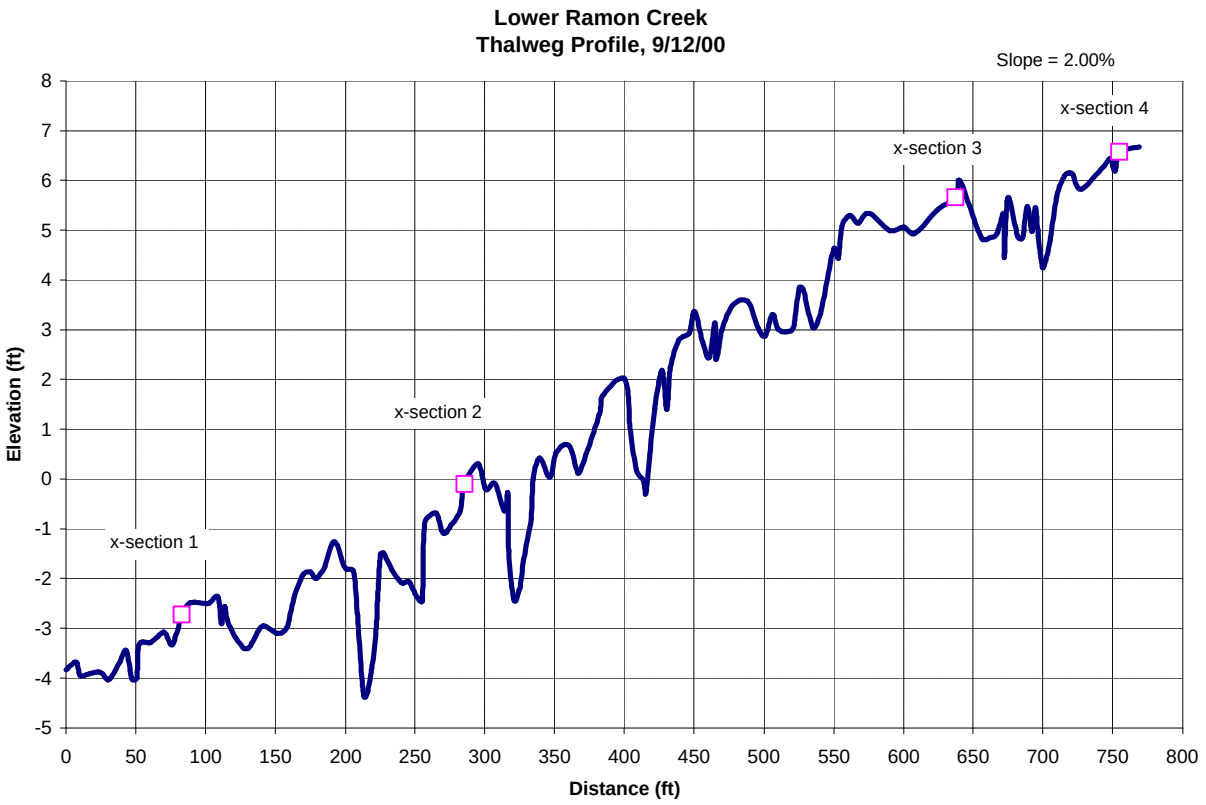


FIGURE 46: CROSS-SECTION 1, LOWER RAMON CREEK (MRC)

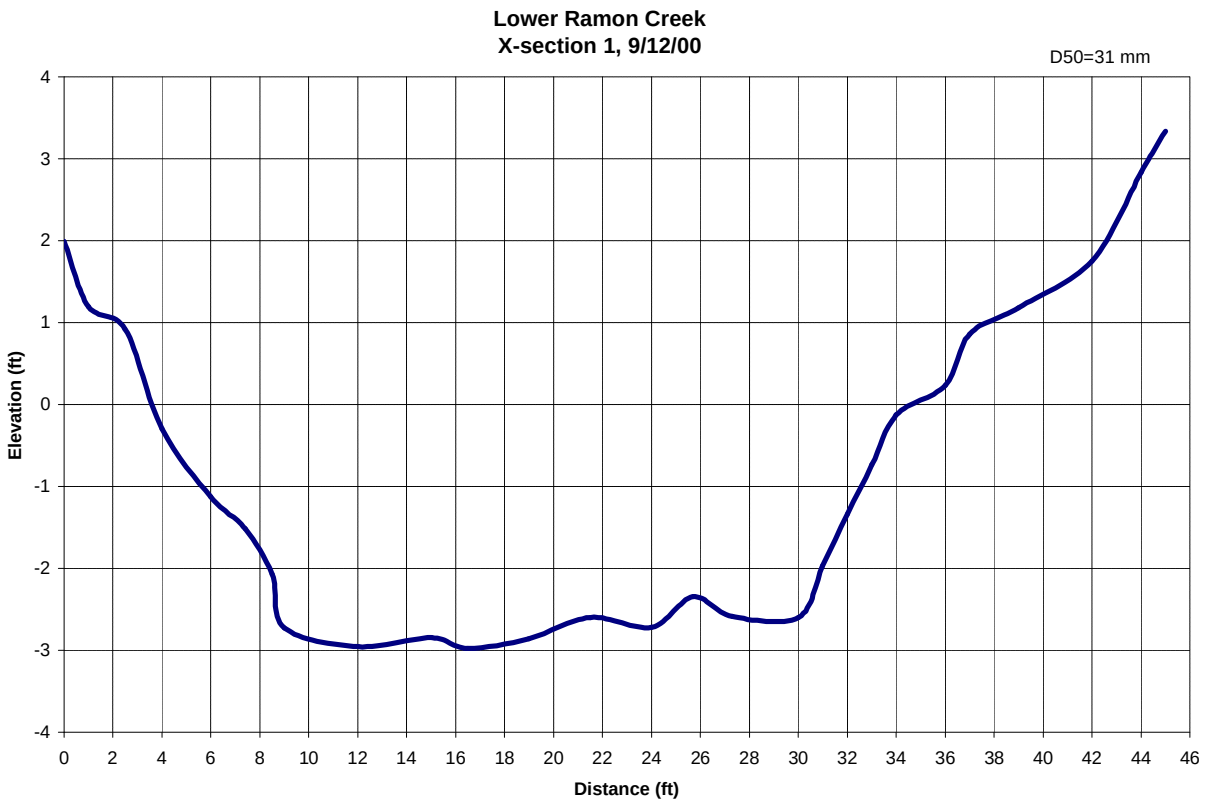


FIGURE 47: CROSS-SECTION 2, LOWER RAMON CREEK (MRC)

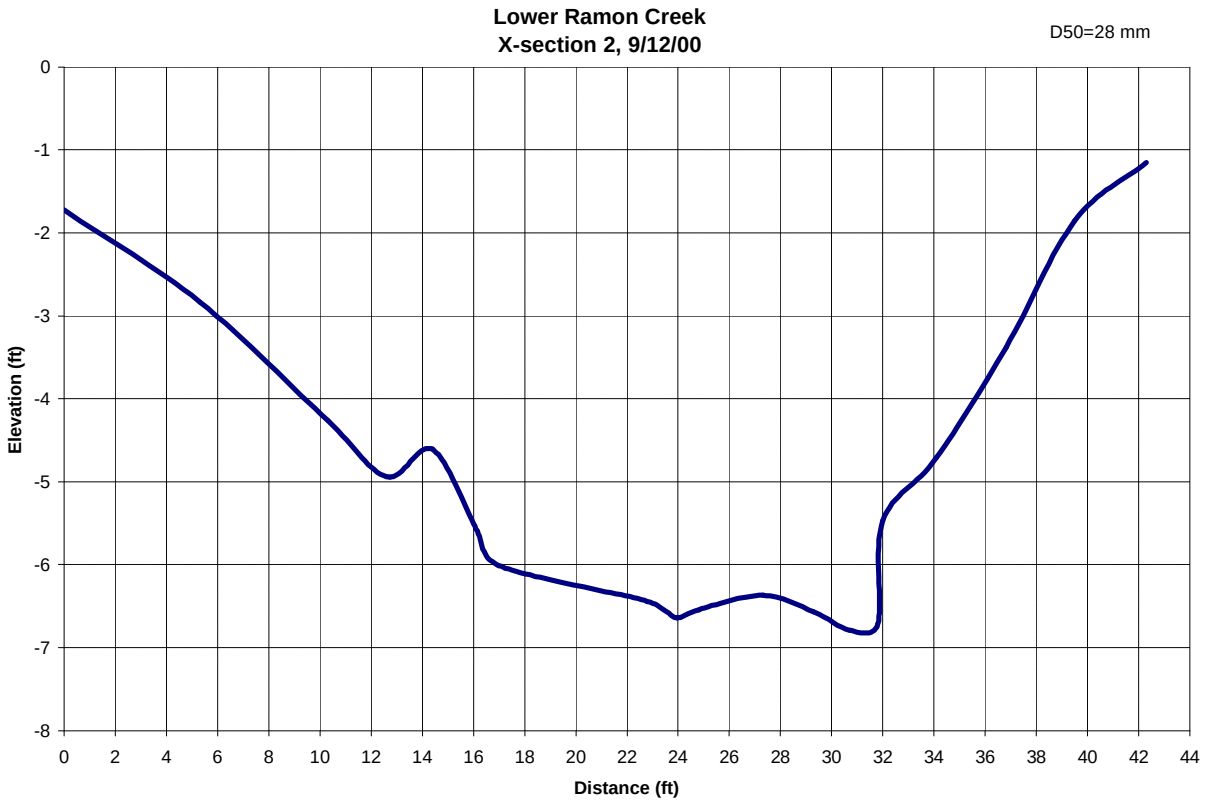


FIGURE 48: CROSS-SECTION 3, LOWER RAMON CREEK (MRC)

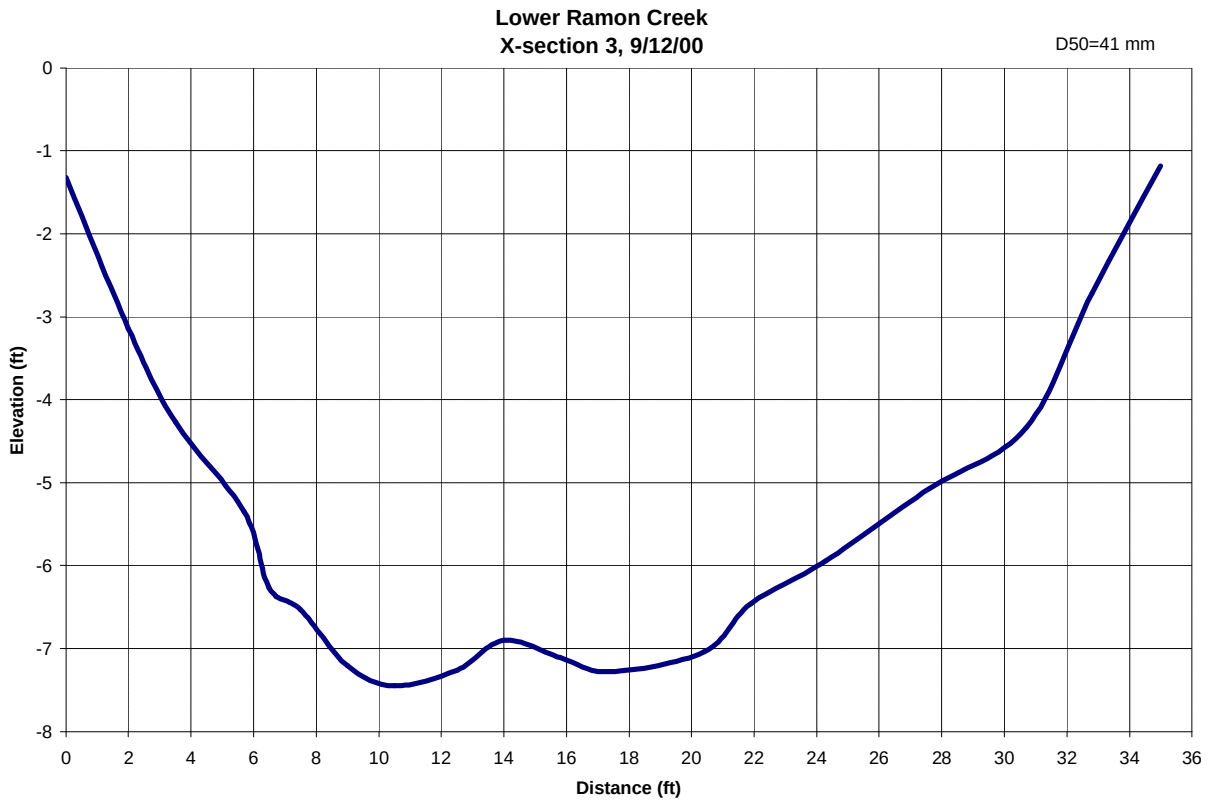


FIGURE 49: CROSS-SECTION 4, LOWER RAMON CREEK (MRC)

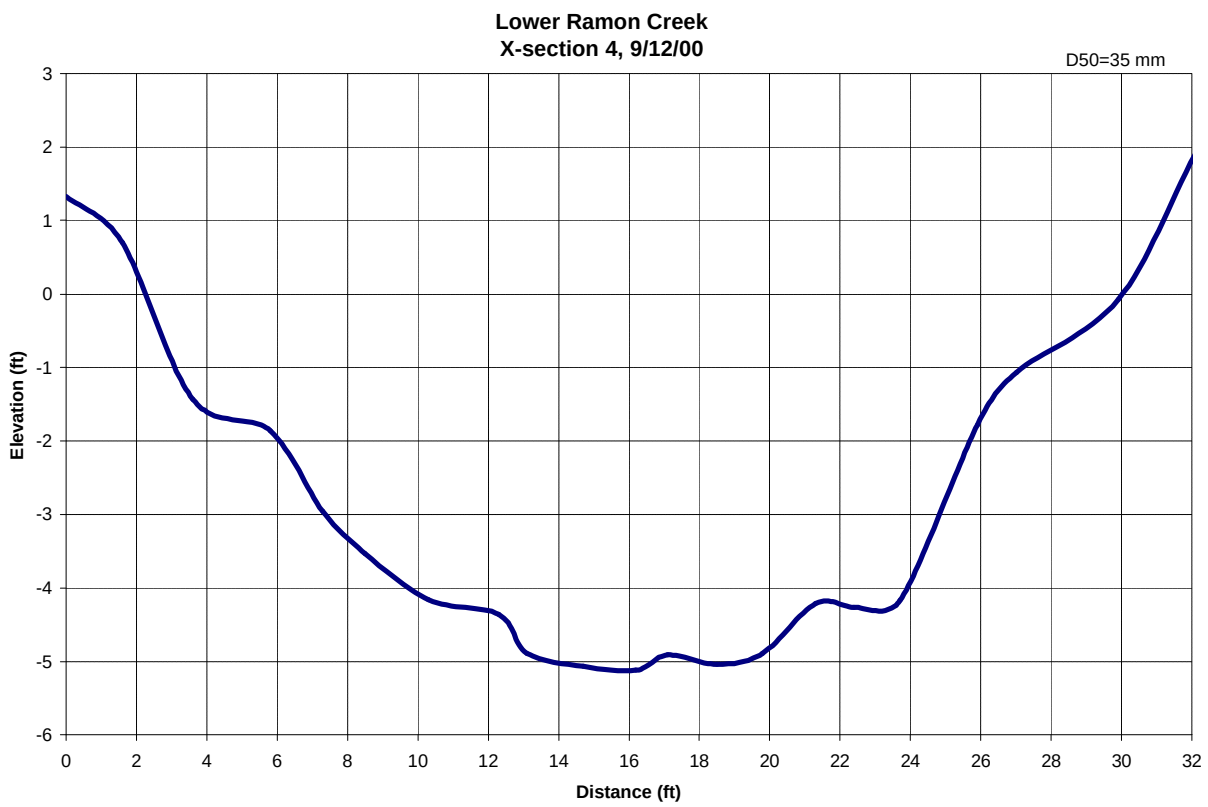


FIGURE 50: THALWEG PROFILE, DAUGHERTY CREEK (MRC)

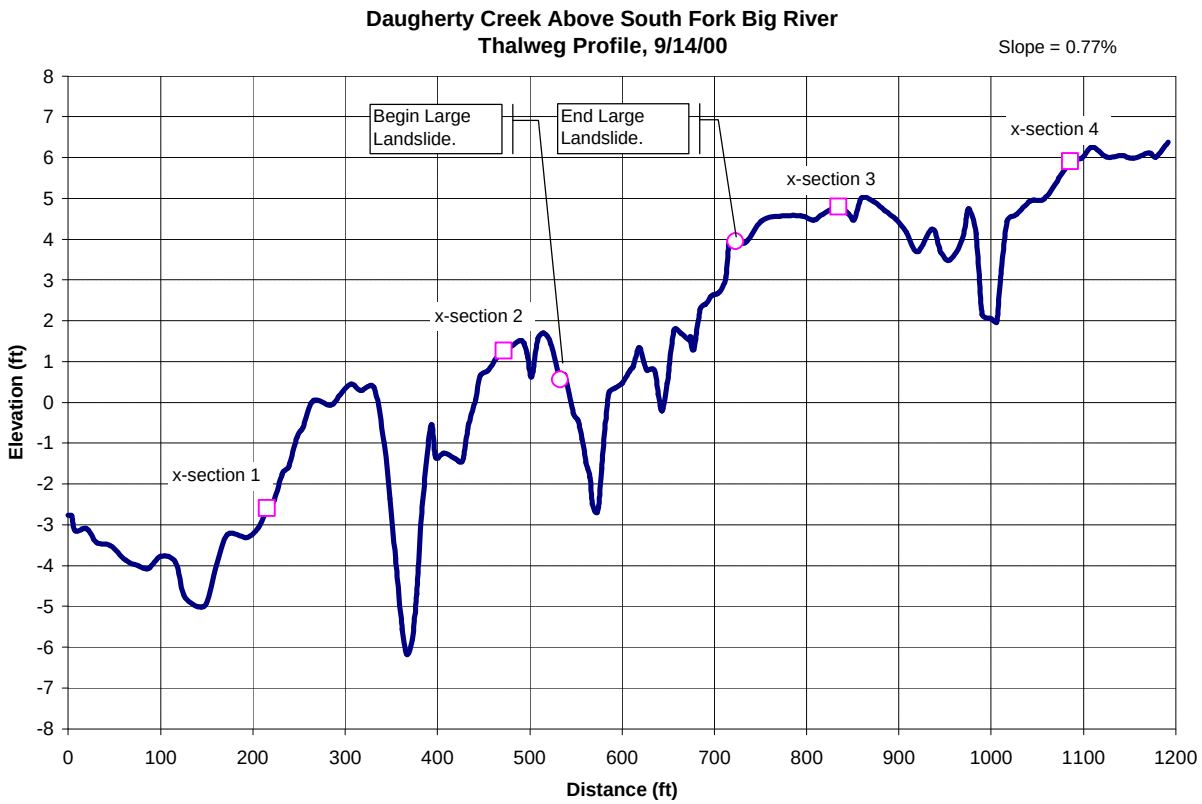


FIGURE 51: CROSS-SECTION 1, DAUGHERTY CREEK (MRC)

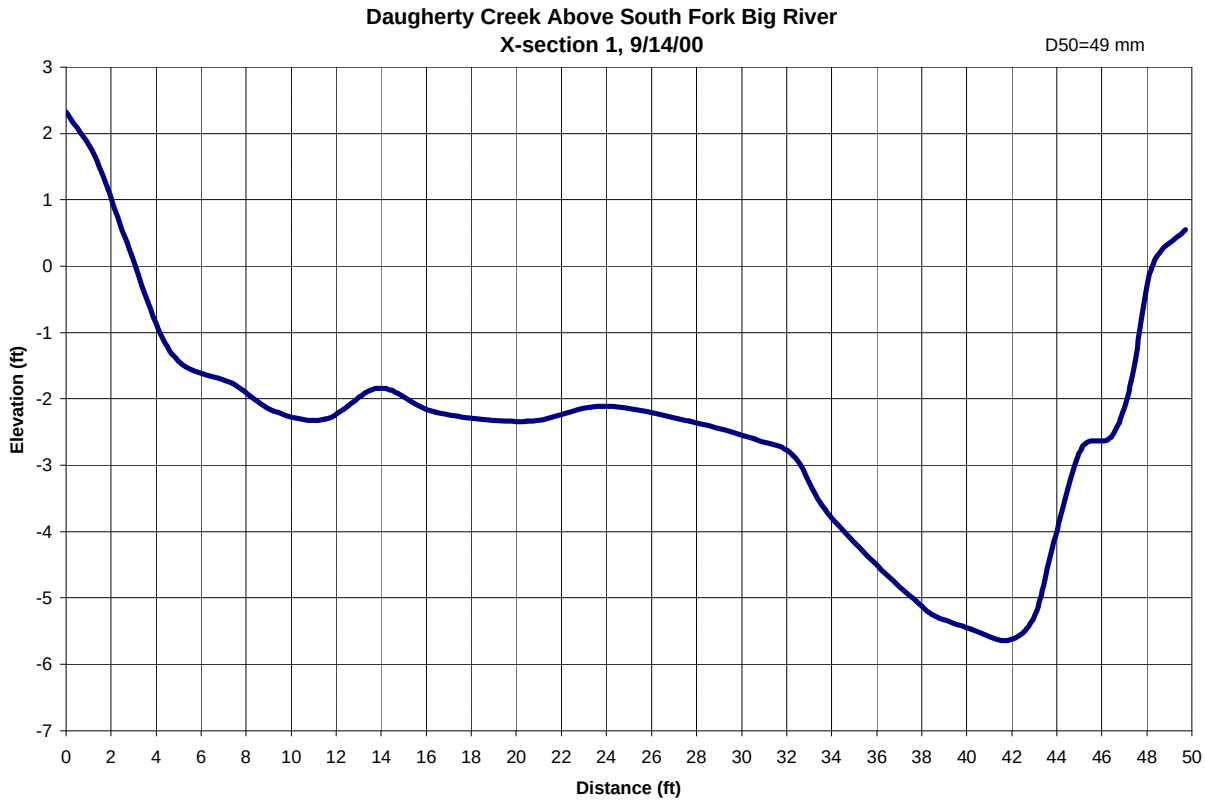


FIGURE 52: CROSS-SECTION 2, DAUGHERTY CREEK (MRC)

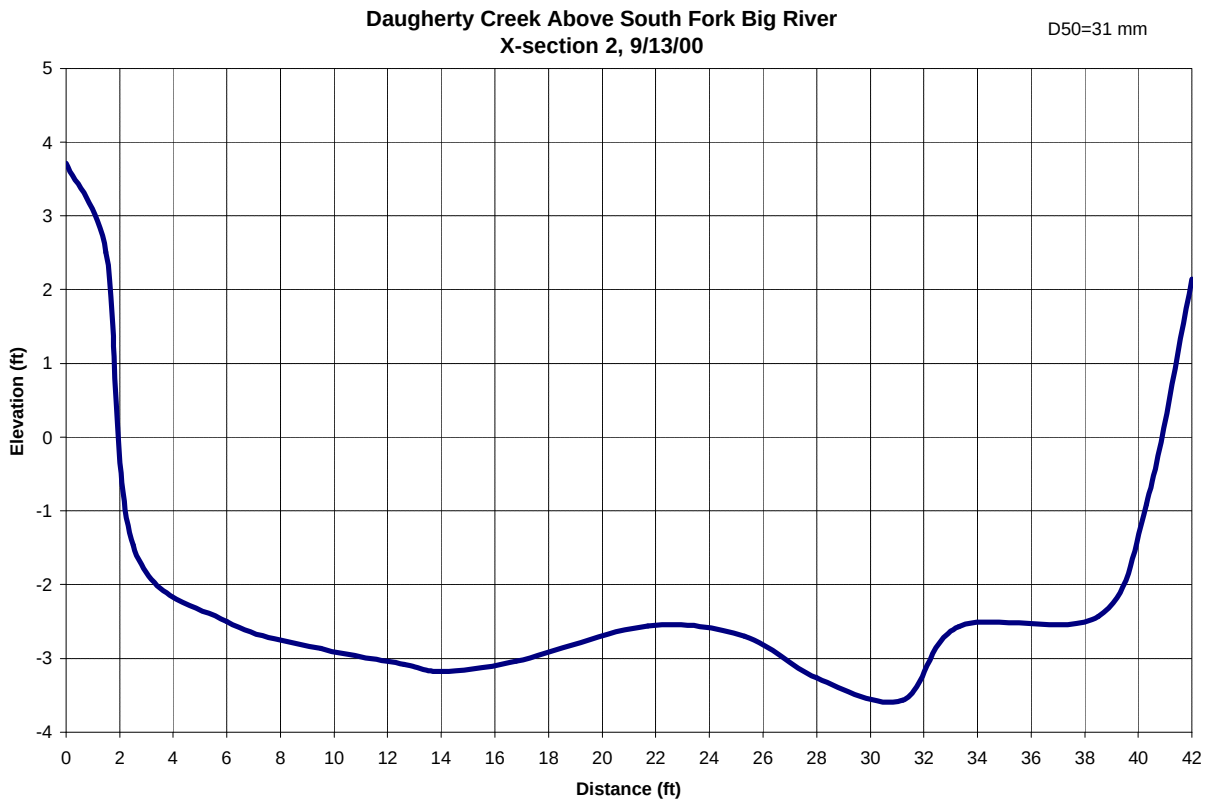


FIGURE 53: CROSS-SECTION 3, DAUGHERTY CREEK (MRC)

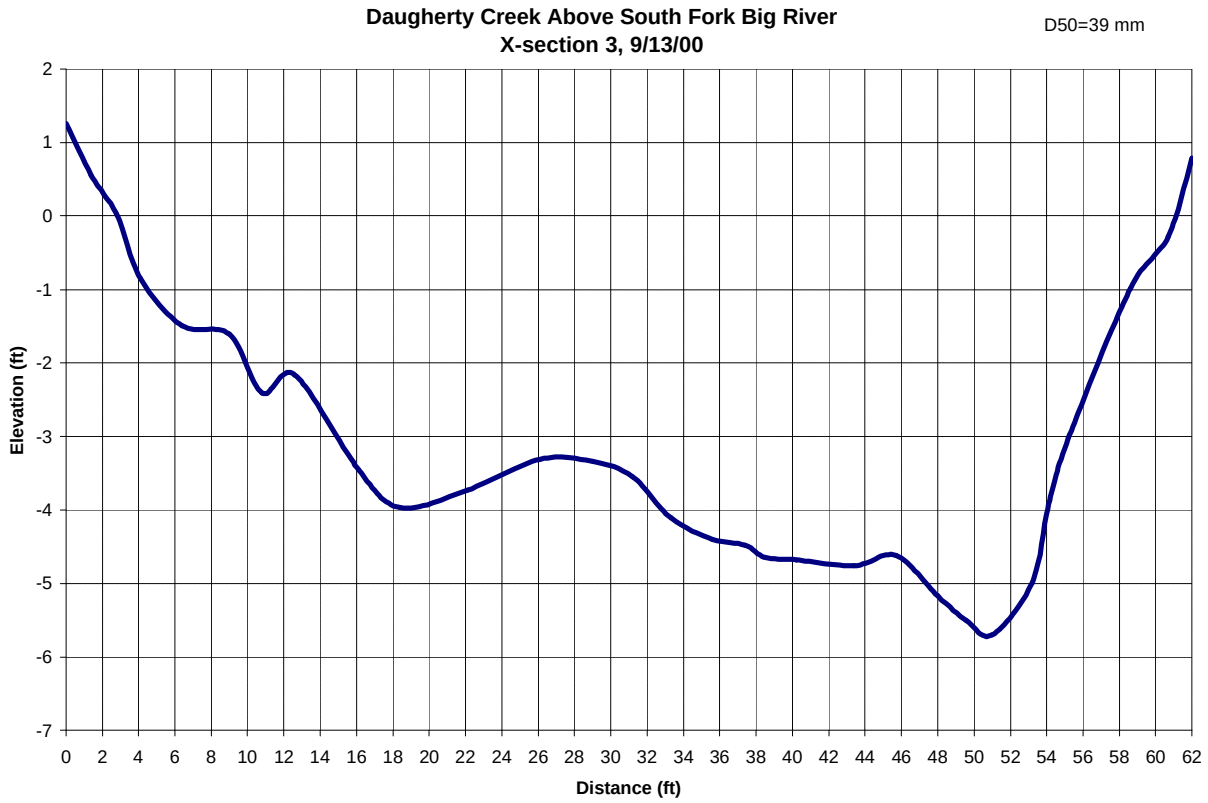


FIGURE 54: CROSS-SECTION 4, DAUGHERTY CREEK (MRC)

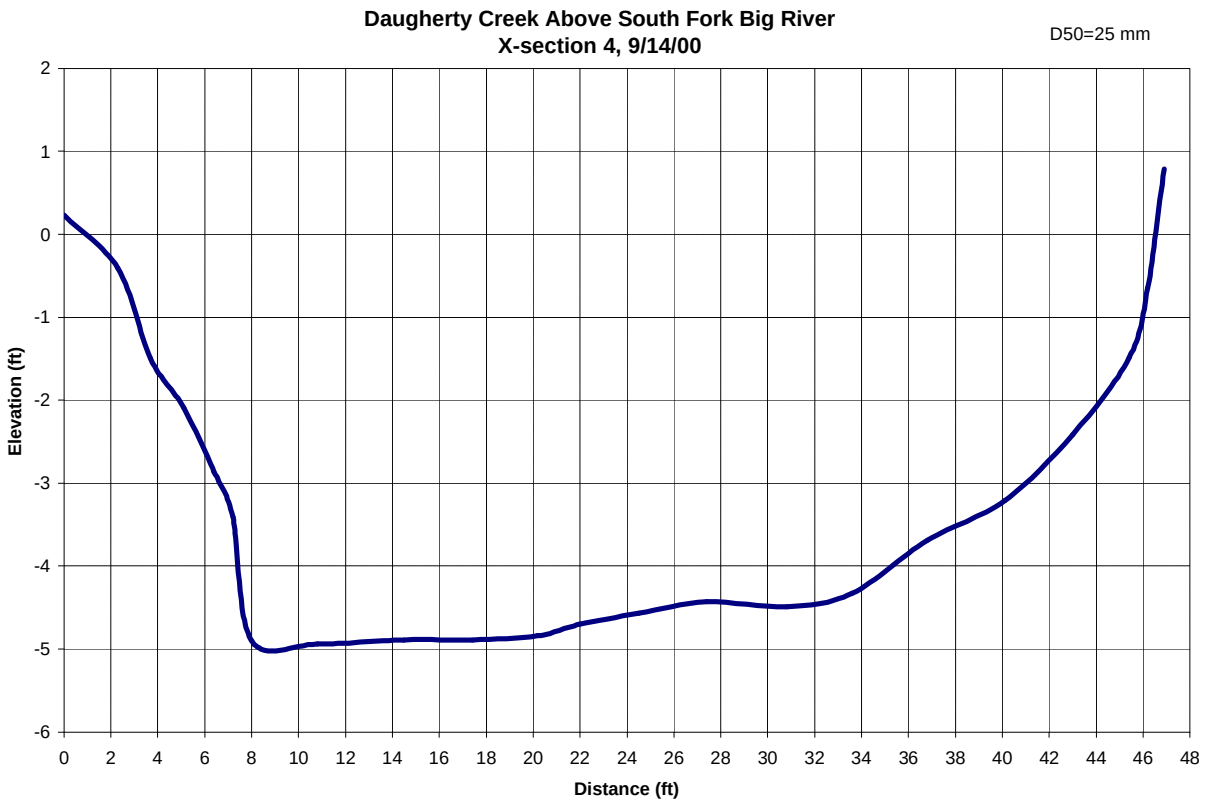


FIGURE 55: THALWEG PROFILE, EAST BRANCH NORTH FORK BIG RIVER (MRC)

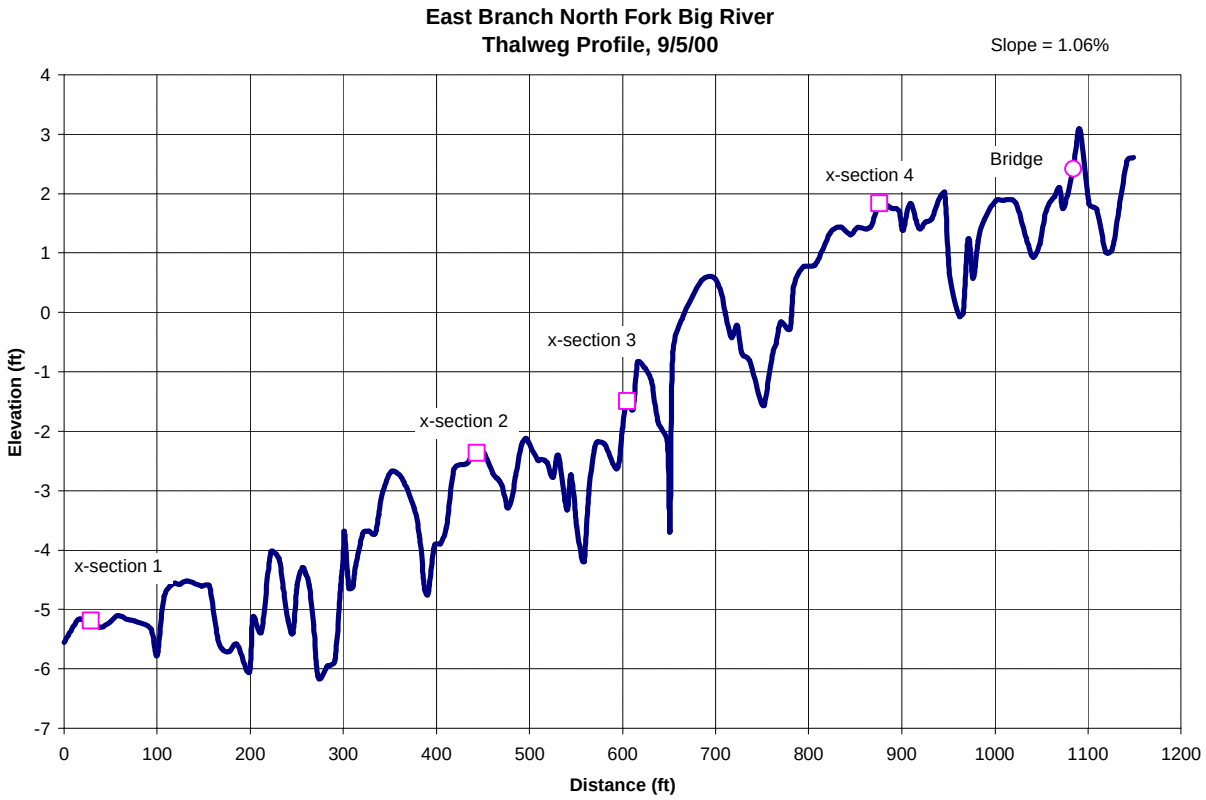


FIGURE 56: CROSS-SECTION 1, EAST BRANCH NORTH FORK BIG RIVER (MRC)

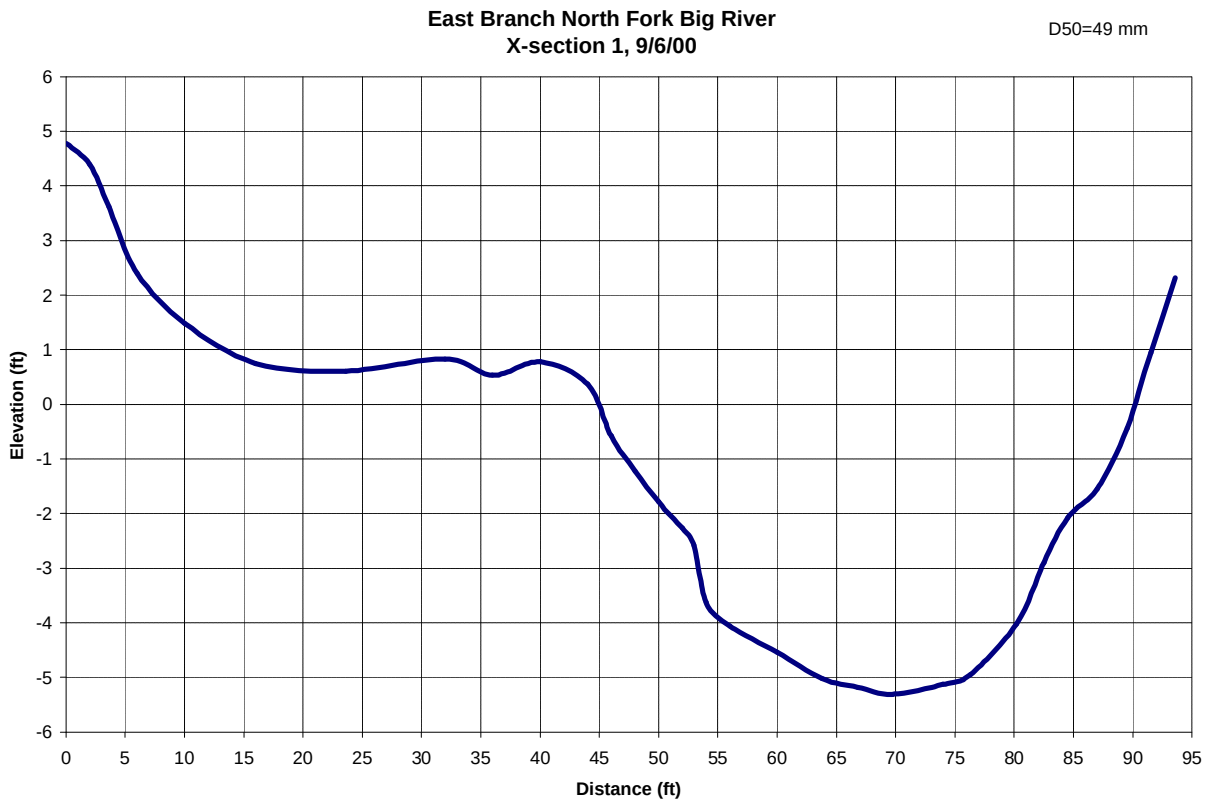


FIGURE 57: CROSS-SECTION 2, EAST BRANCH NORTH FORK BIG RIVER (MRC)

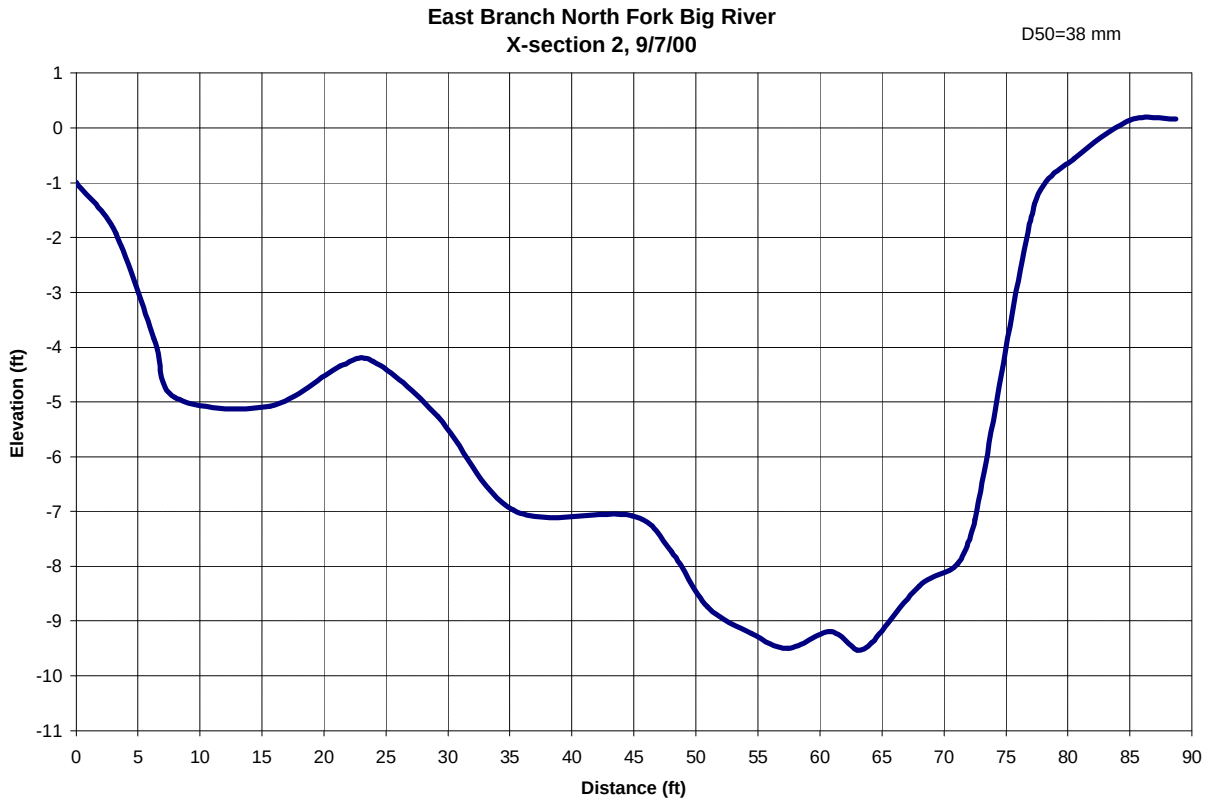


FIGURE 58: CROSS-SECTION 3, EAST BRANCH NORTH FORK BIG RIVER (MRC)

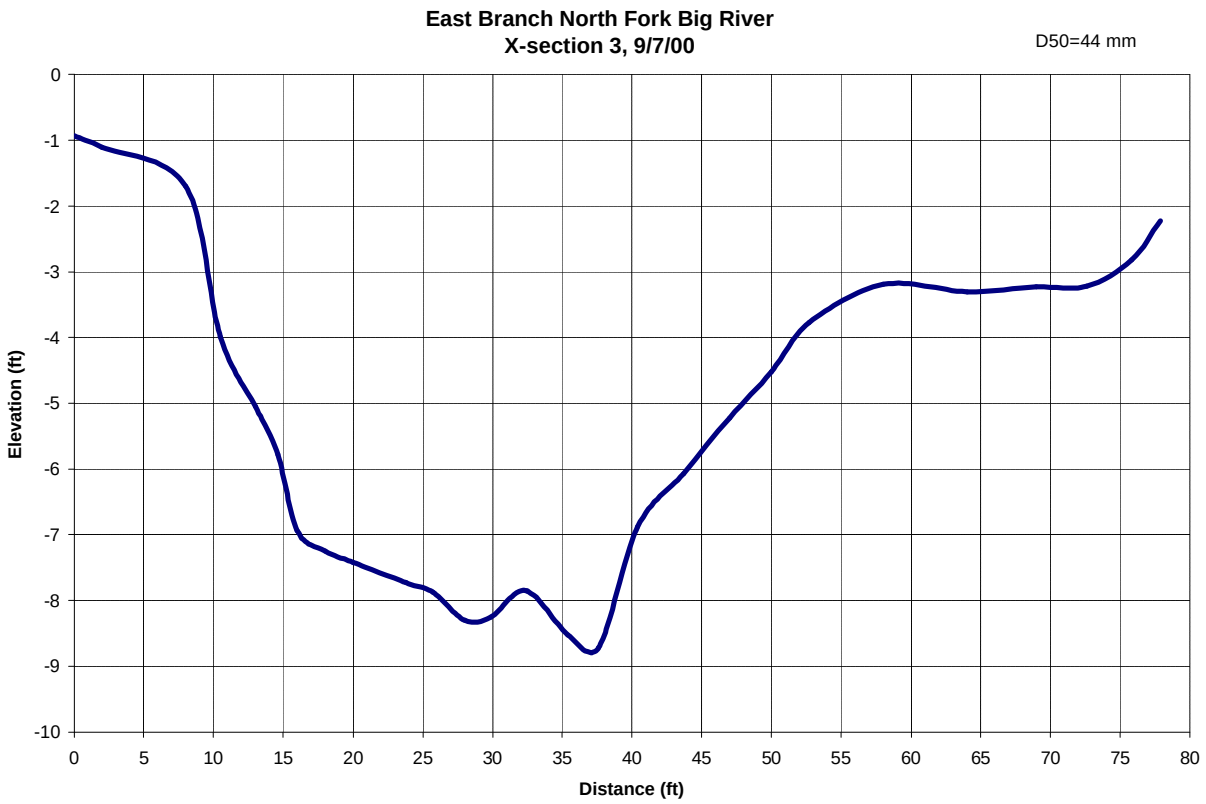


FIGURE 59: CROSS-SECTION 4, EAST BRANCH NORTH FORK BIG RIVER (MRC)

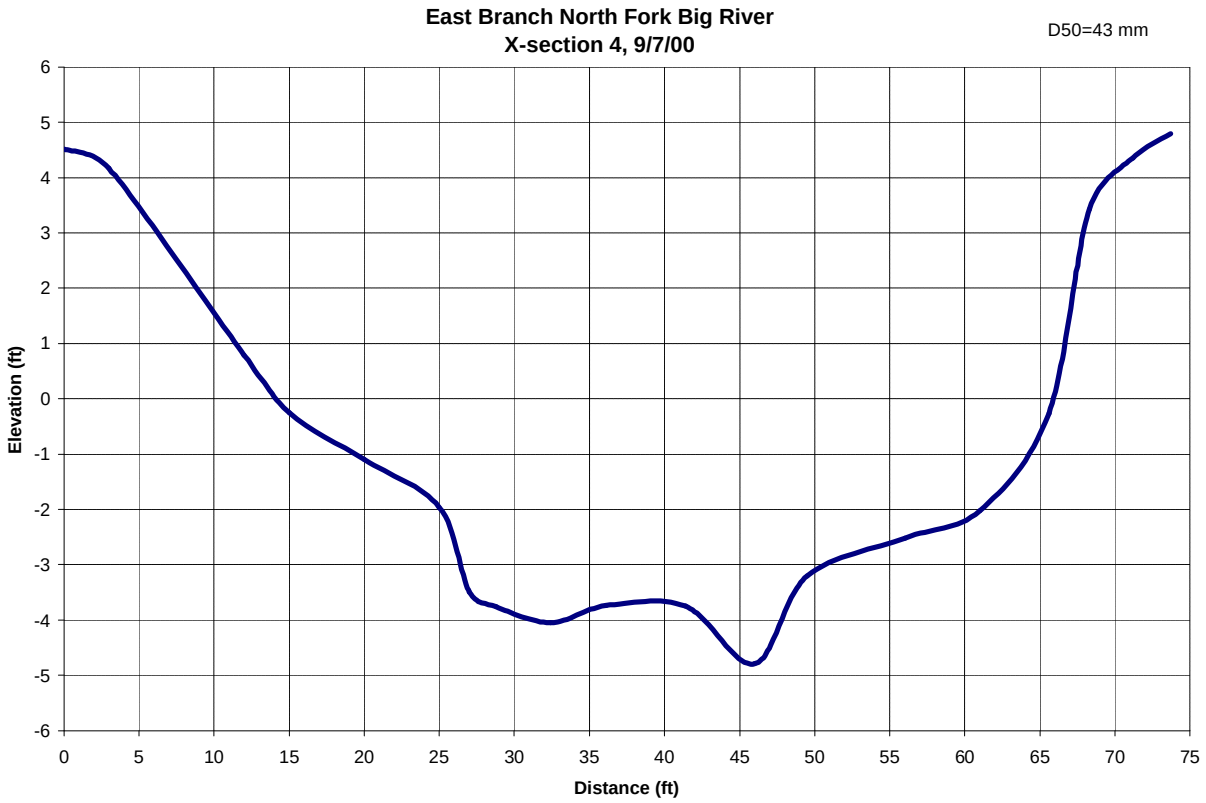


FIGURE 60: THALWEG PROFILE, BIG RIVER BELOW NORTH FORK (MRC)

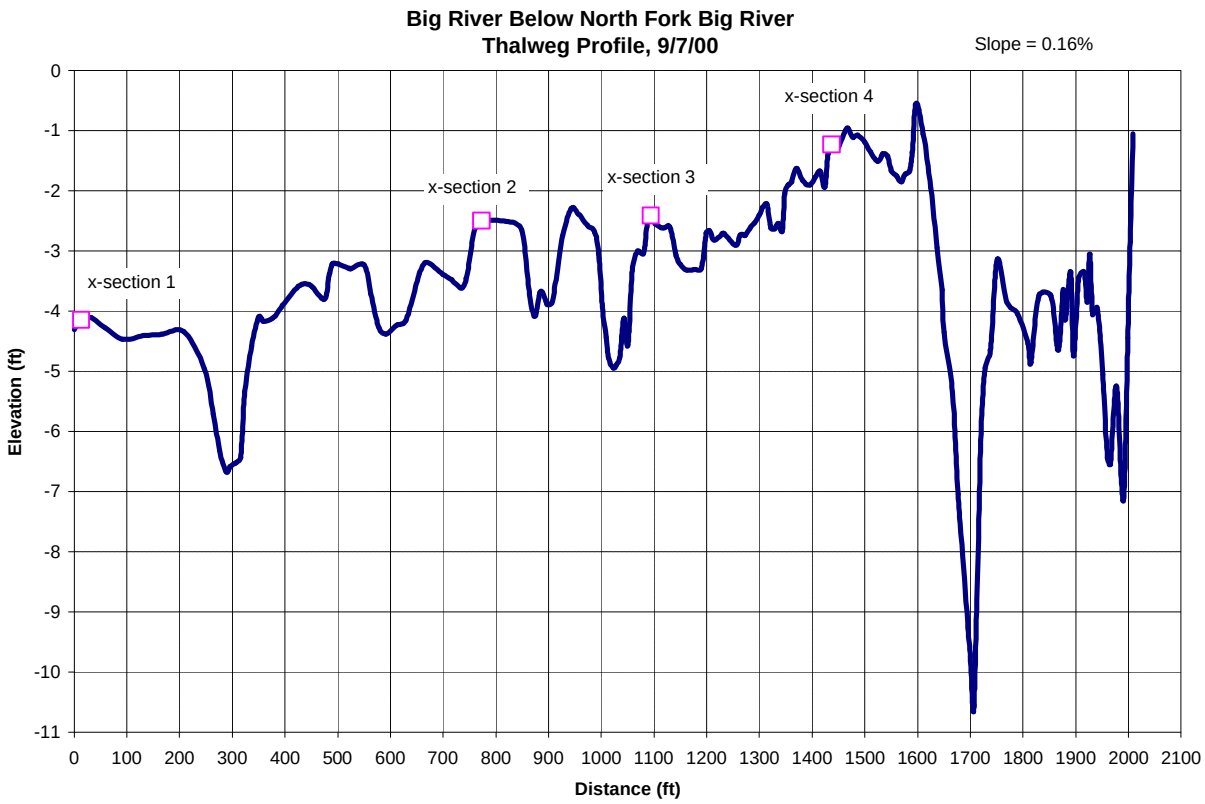


FIGURE 61: CROSS-SECTION 1, BIG RIVER BELOW NORTH FORK (MRC)

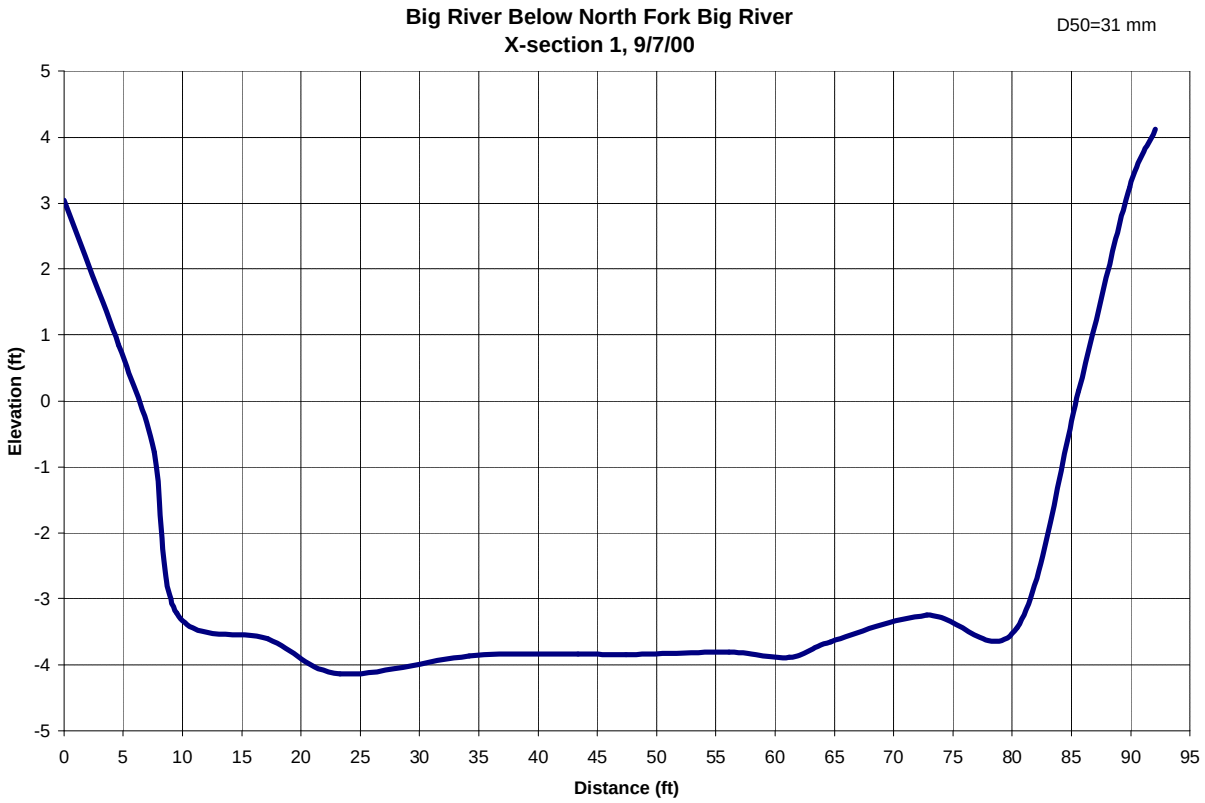


FIGURE 62: CROSS-SECTION 2, NORTH FORK BIG RIVER (MRC)

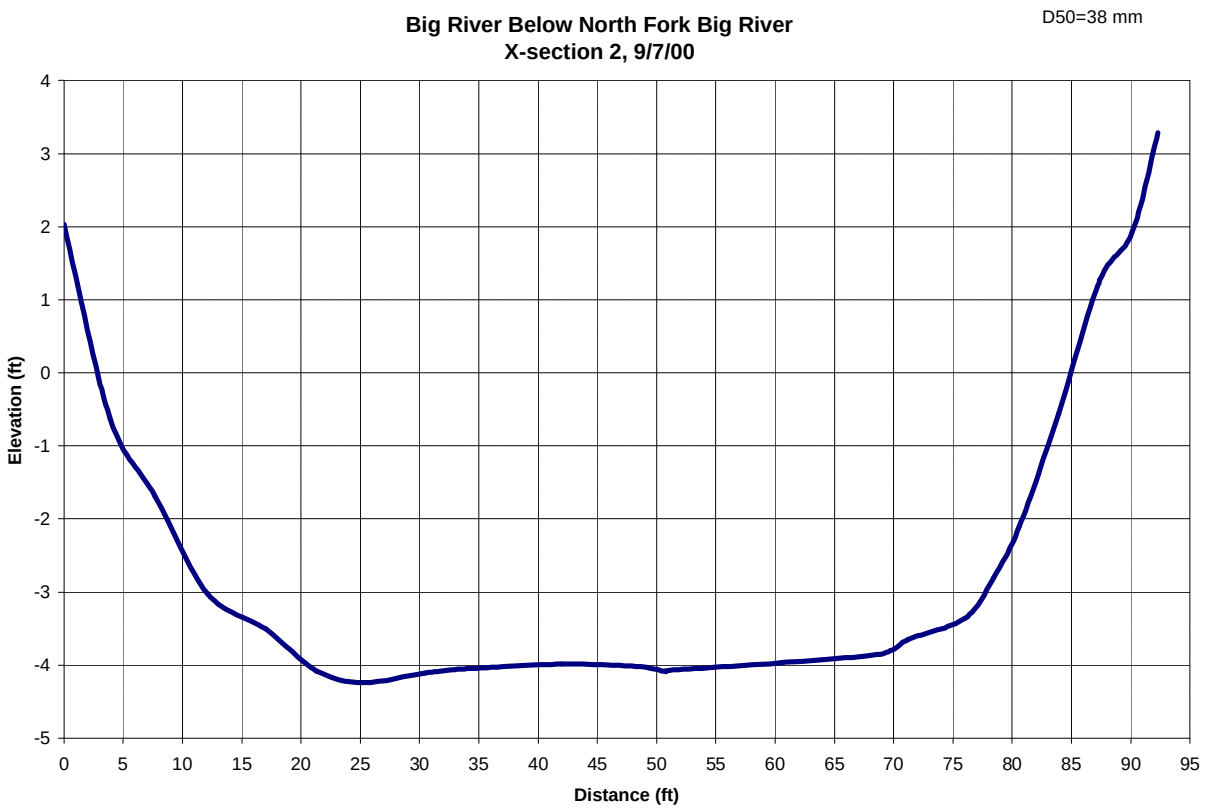


FIGURE 63: CROSS-SECTION 3, BIG RIVER BELOW NORTH FORK (MRC)

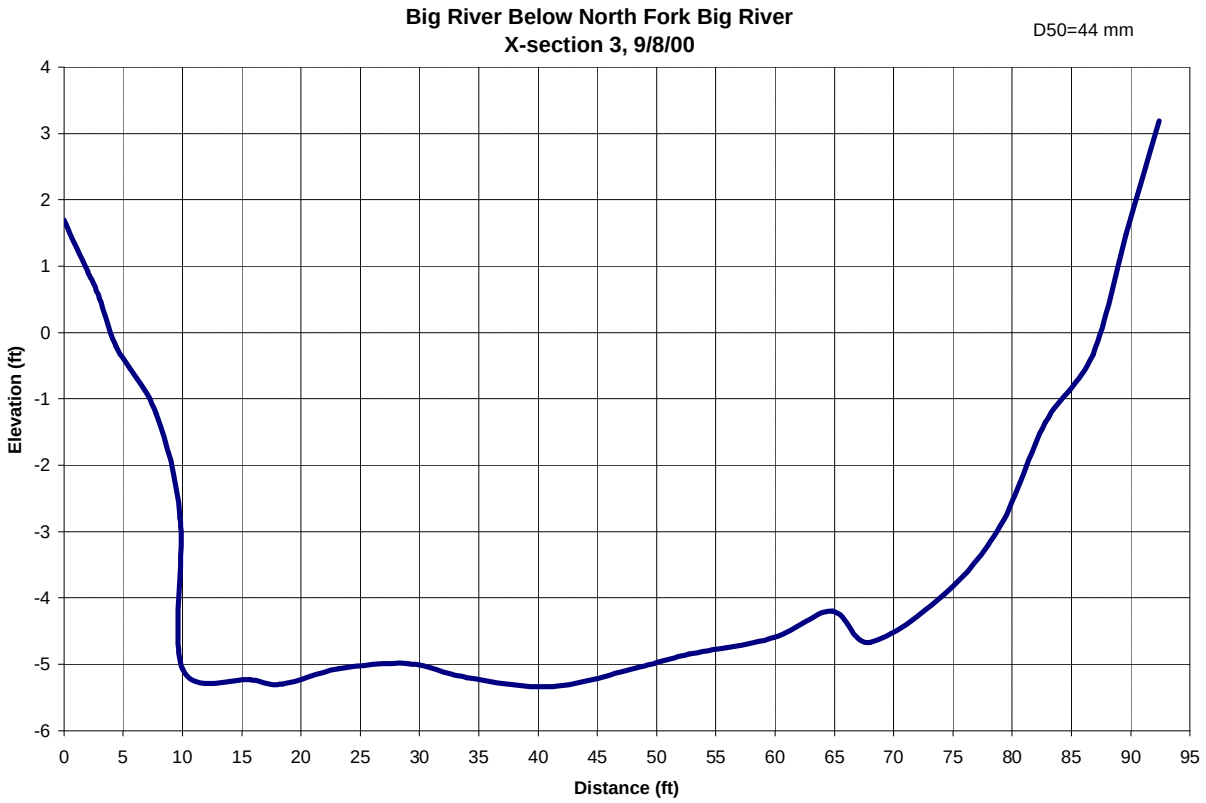


FIGURE 64: CROSS-SECTION 4, BIG RIVER BELOW NORTH FORK (MRC)

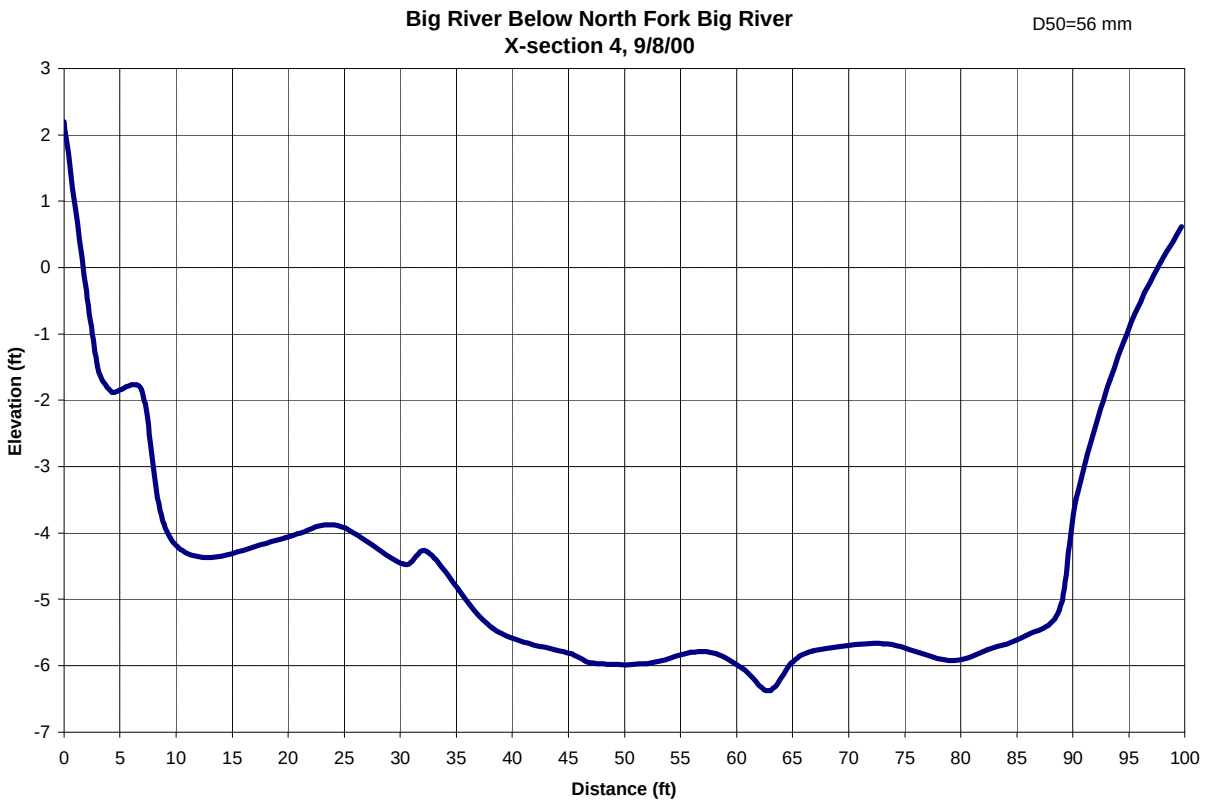


FIGURE 65: SSC VS. TURBIDITY, UPPER BIG RIVER (GMA)

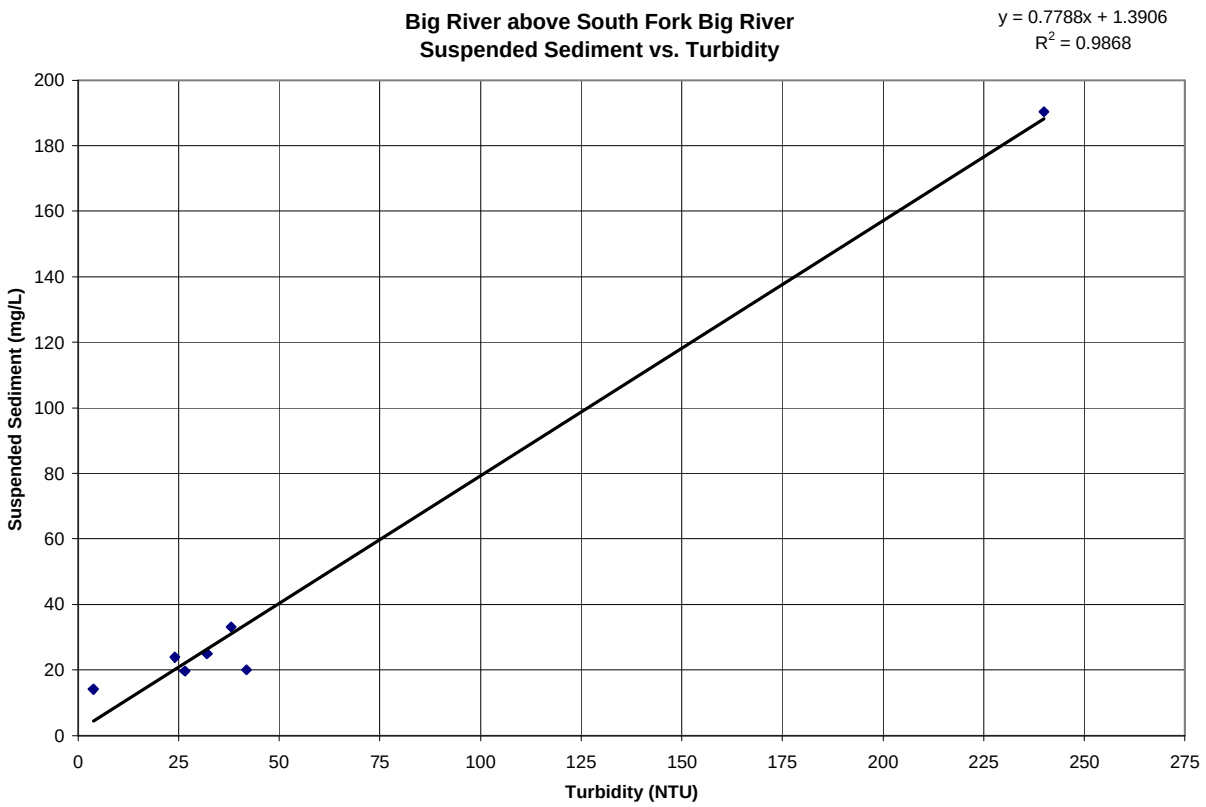


FIGURE 66: SSC VS. TURBIDITY, NORTH FORK BIG RIVER (GMA)

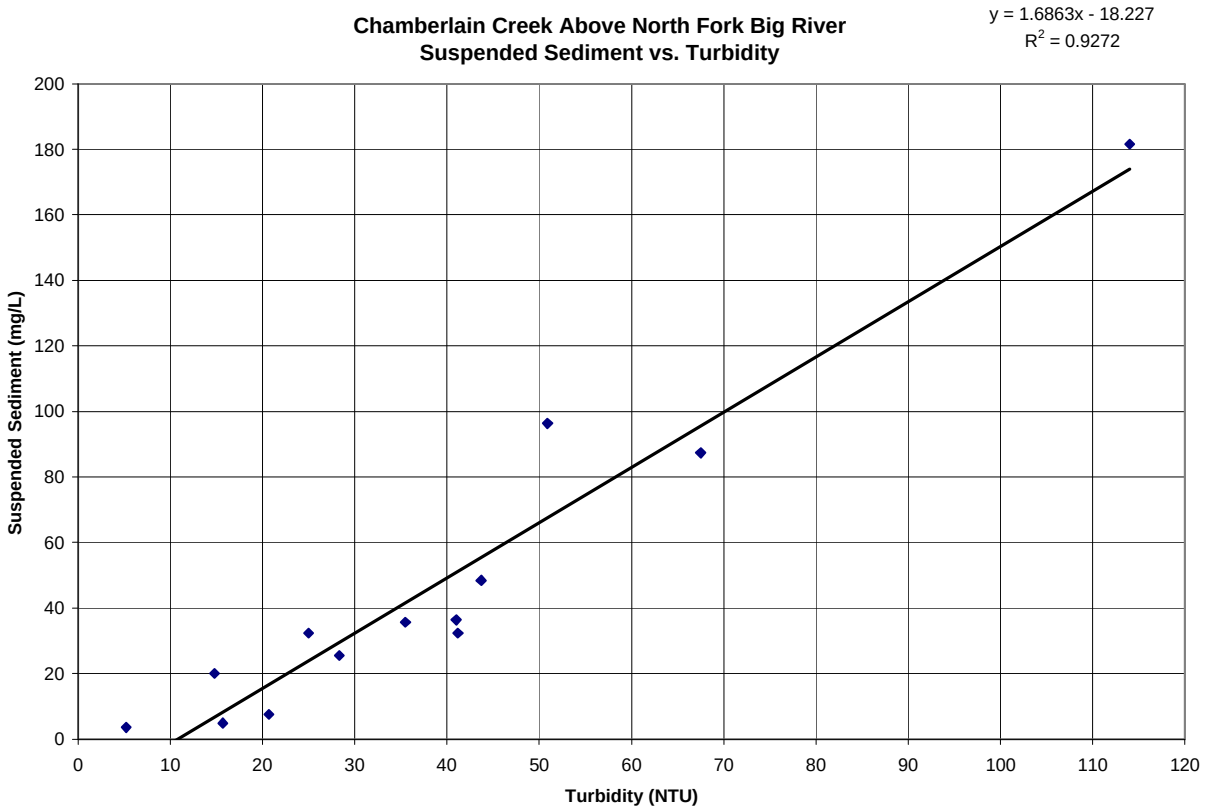


FIGURE 67: SSC VS TURBIDITY, NORTH FORK BIG RIVER (GMA)

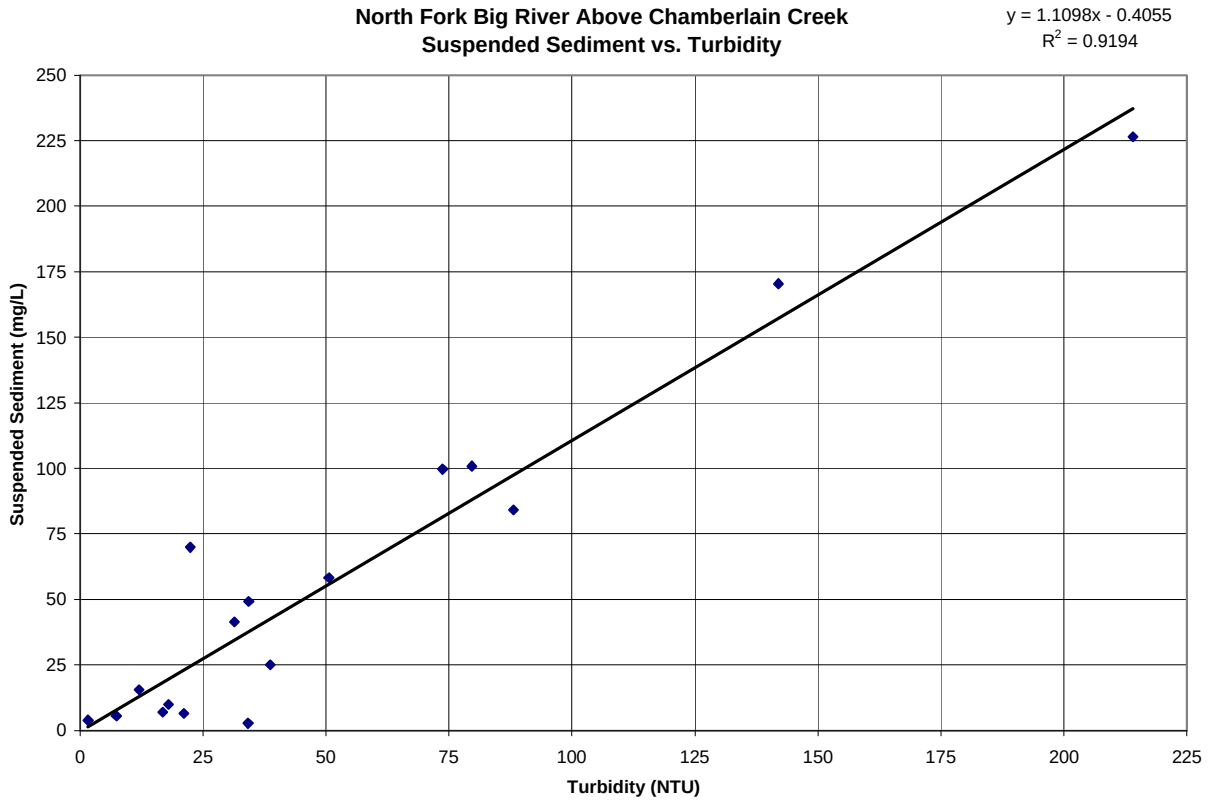


FIGURE 68: SSC VS. TURBIDITY, NORTH FORK BIG RIVER (GMA)

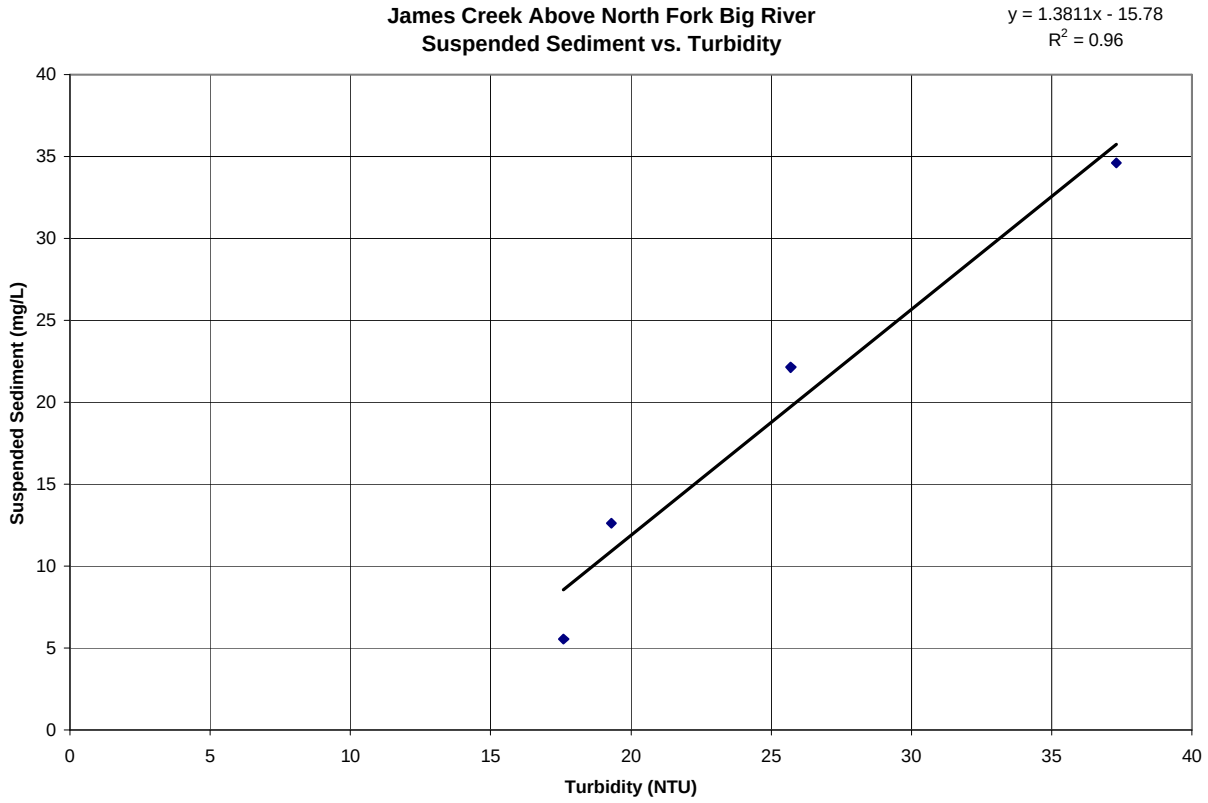


FIGURE 69: SSC VS. TURBIDITY, NORTH FORK BIG RIVER (GMA)

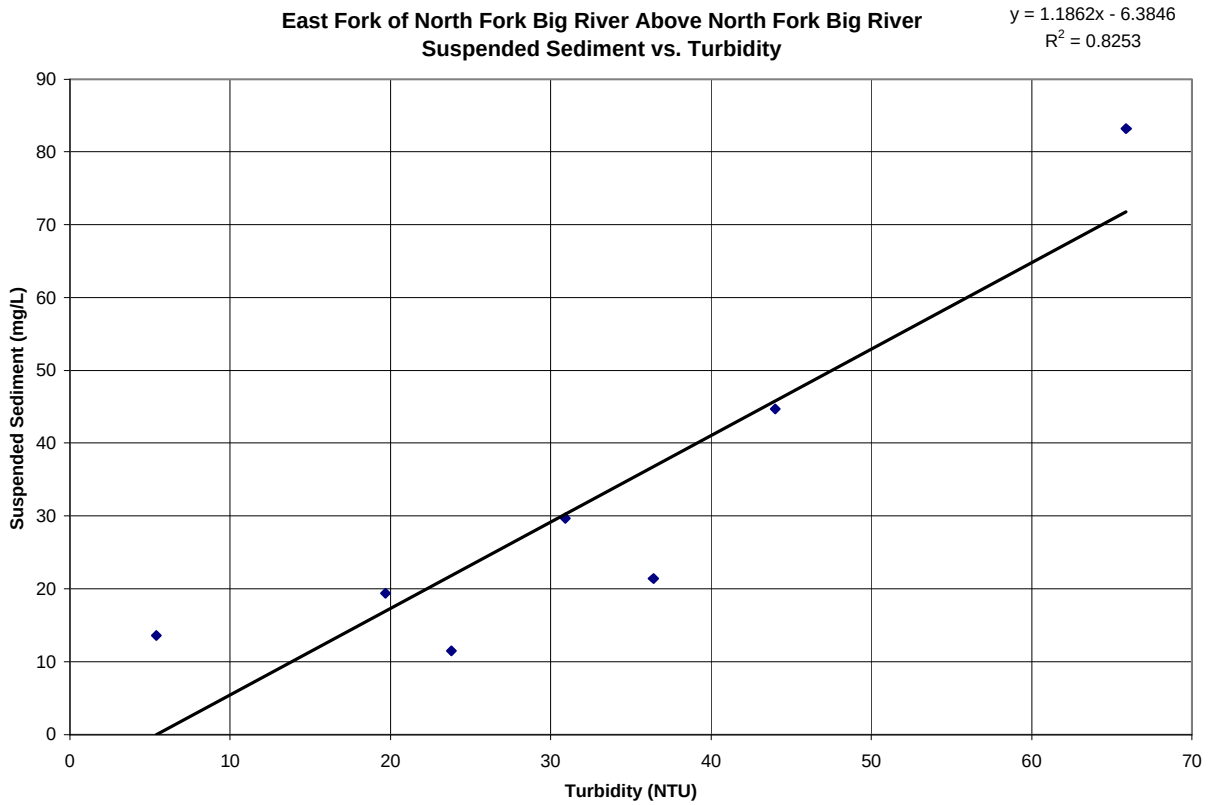


FIGURE 70: SSC VS TURBIDITY, NORTH FORK BIG RIVER (GMA)

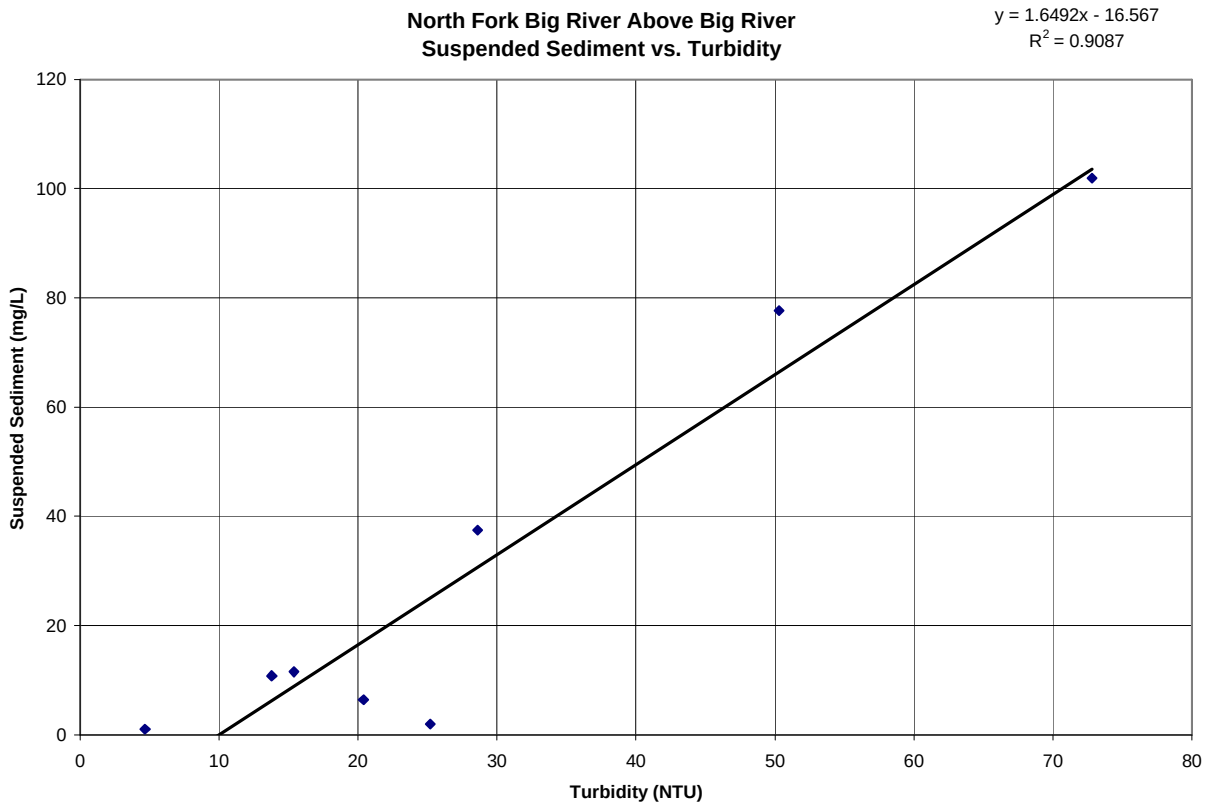


FIGURE 71: SSC VS. TURBIDITY, SOUTH FORK BIG RIVER (GMA)

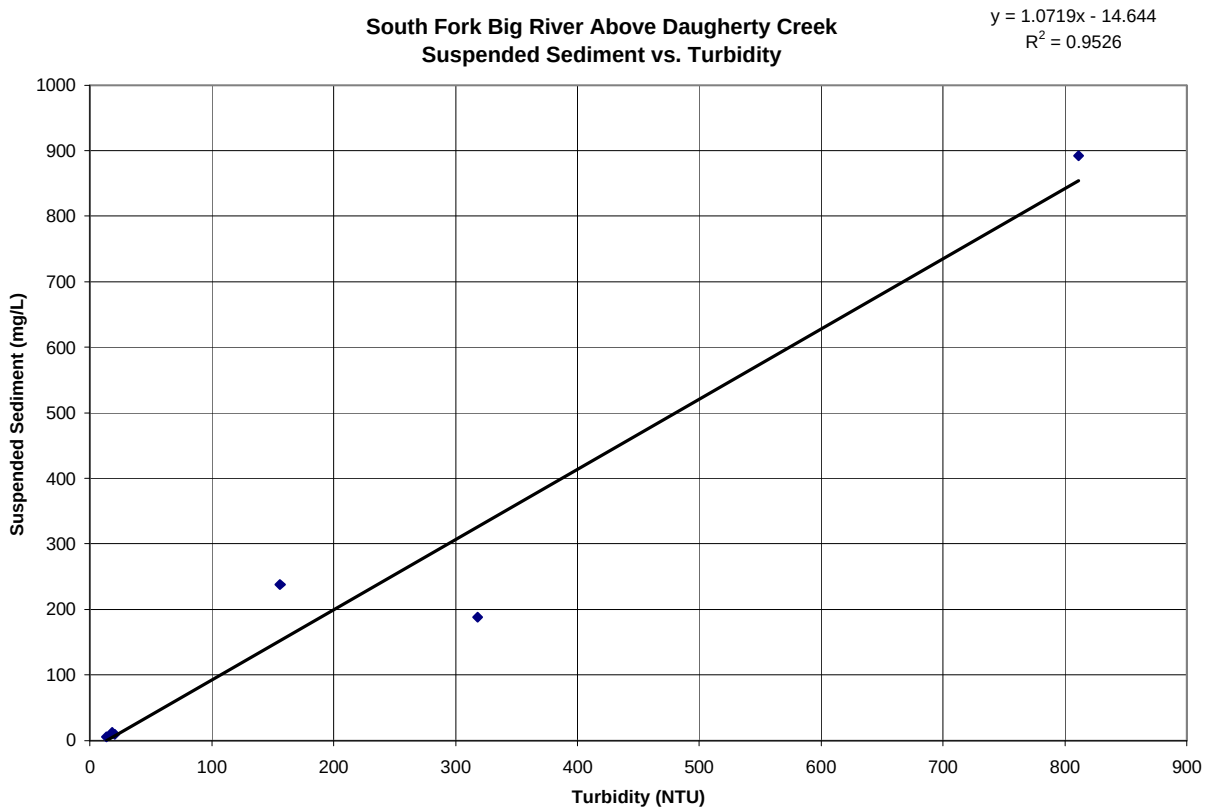


FIGURE 72: SSC VS. TURBIDITY, SOUTH FORK BIG RIVER (GMA)

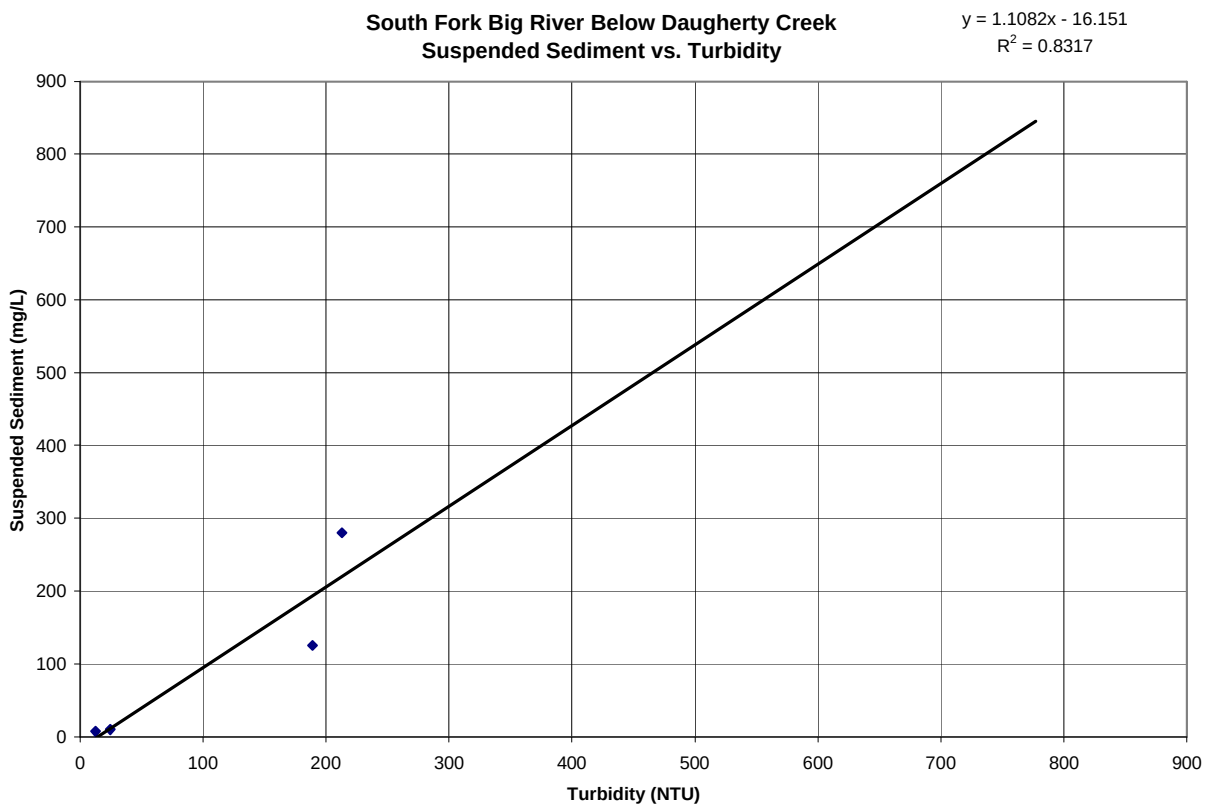


FIGURE 73: SSC VS. TURBIDITY, SOUTH FORK BIG RIVER (GMA)

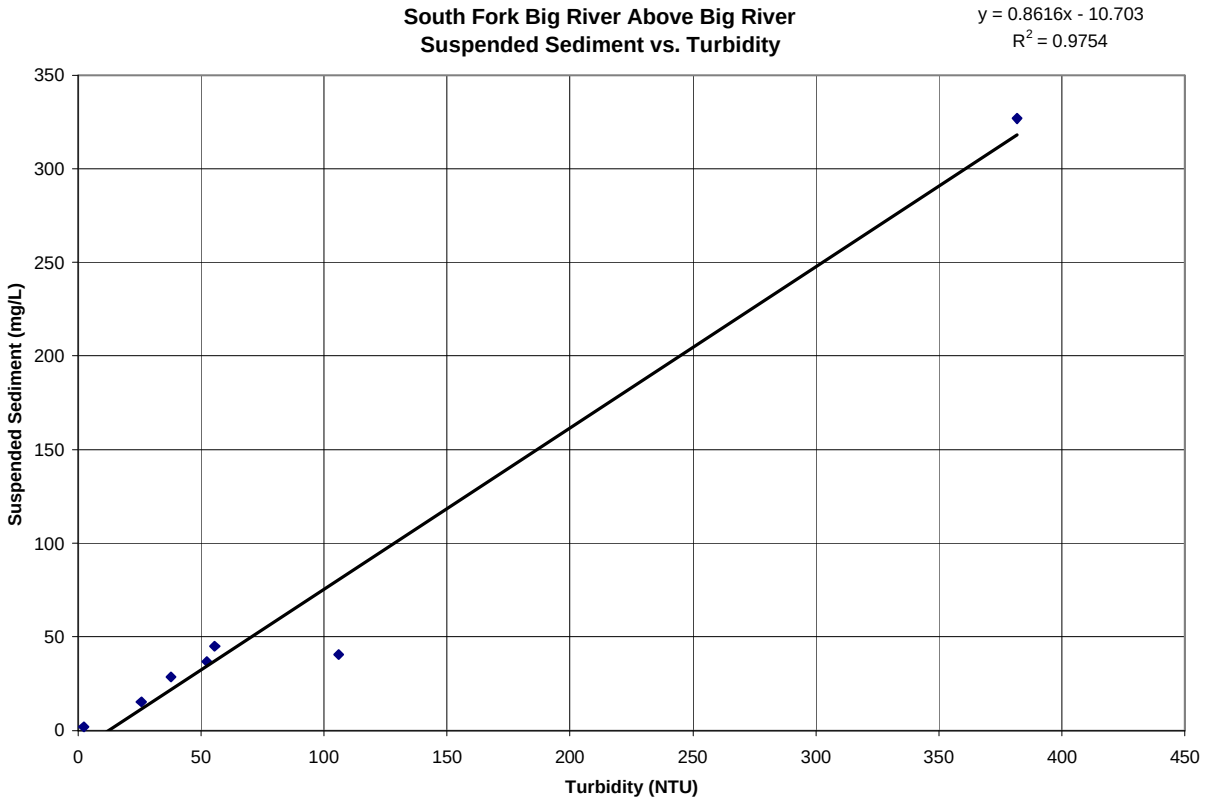


FIGURE 74: SSC VS TURBIDITY, SOUTH FORK BIG RIVER (GMA)

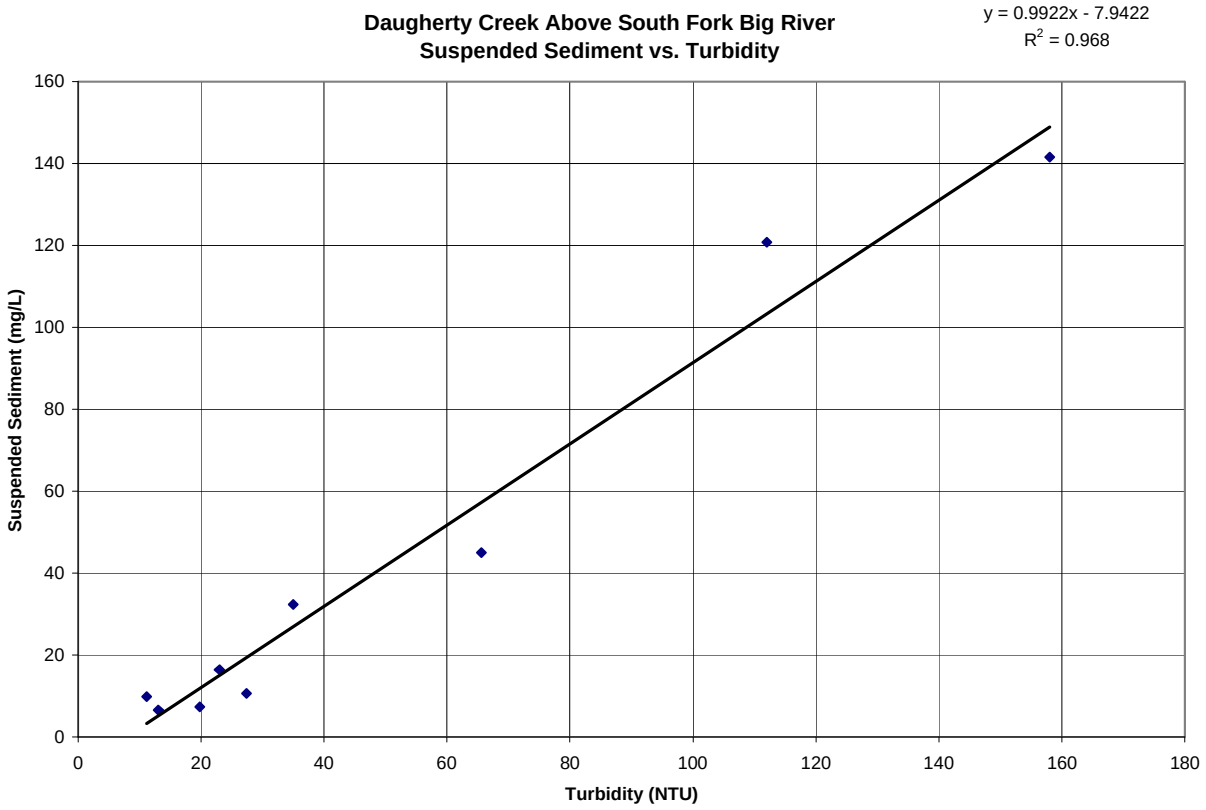


FIGURE 75: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), LOWER BIG RIVER SUBBASIN (GMA)

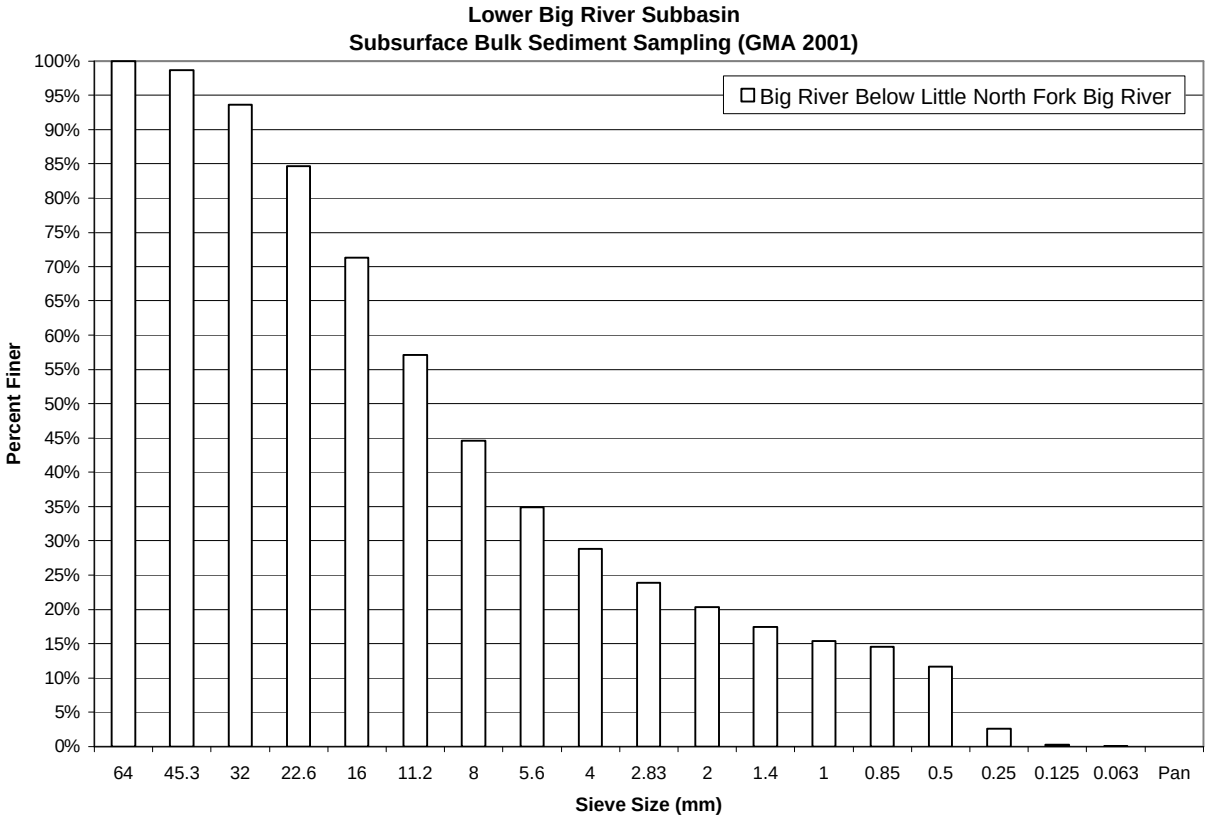


FIGURE 76: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), MIDDLE BIG RIVER SUBBASIN (GMA)

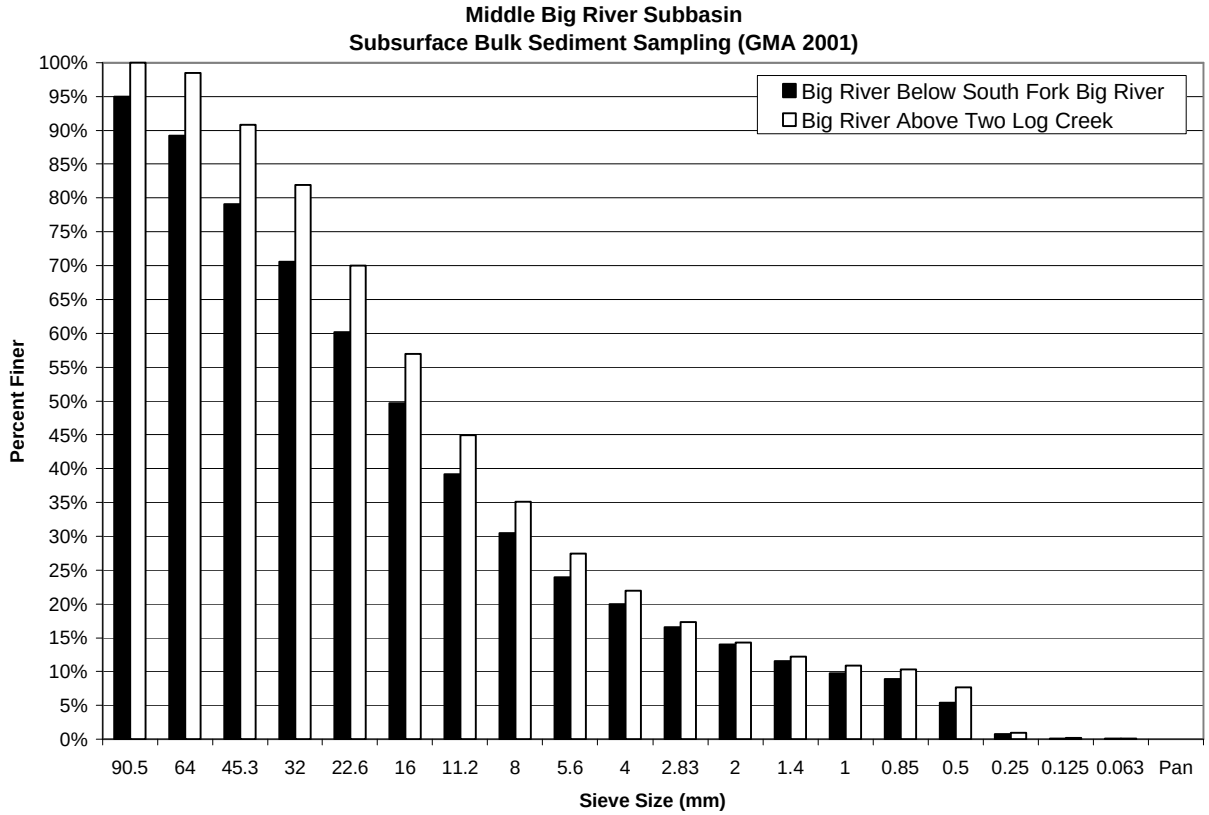


FIGURE 77: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), SOUTH FORK BIG RIVER (GMA)

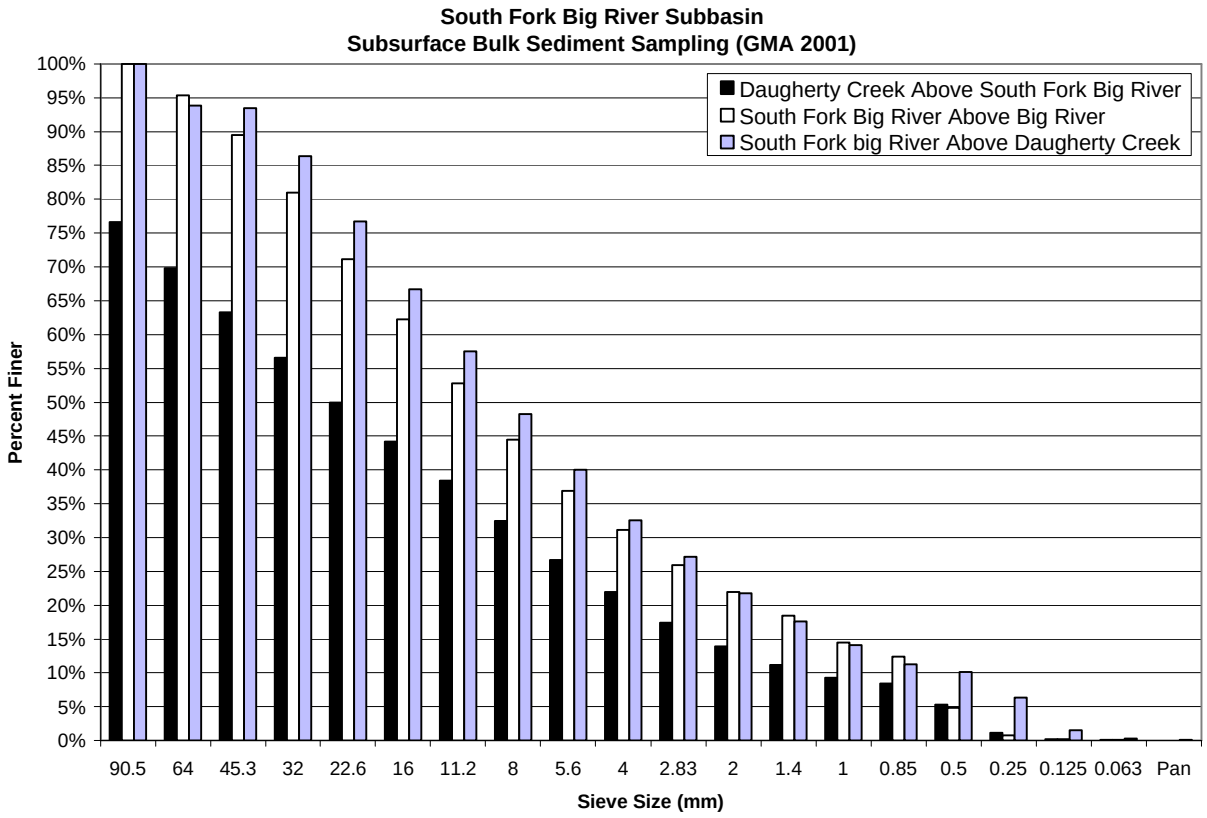


FIGURE 78: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), NORTH FORK BIG RIVER (GMA)

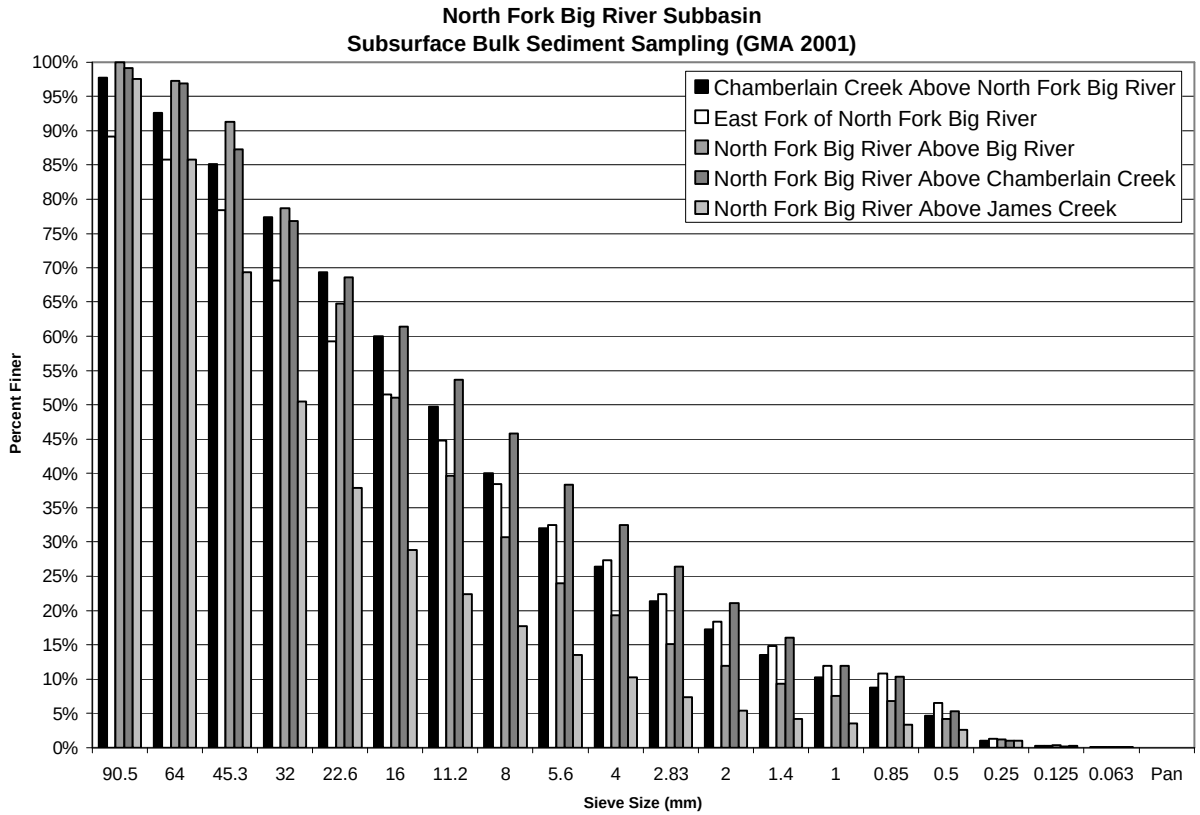


FIGURE 79: BULK SEDIMENT DATA SUMMARY (VOLUMETRIC), LOWER TWO LOG CREEK (HTC)

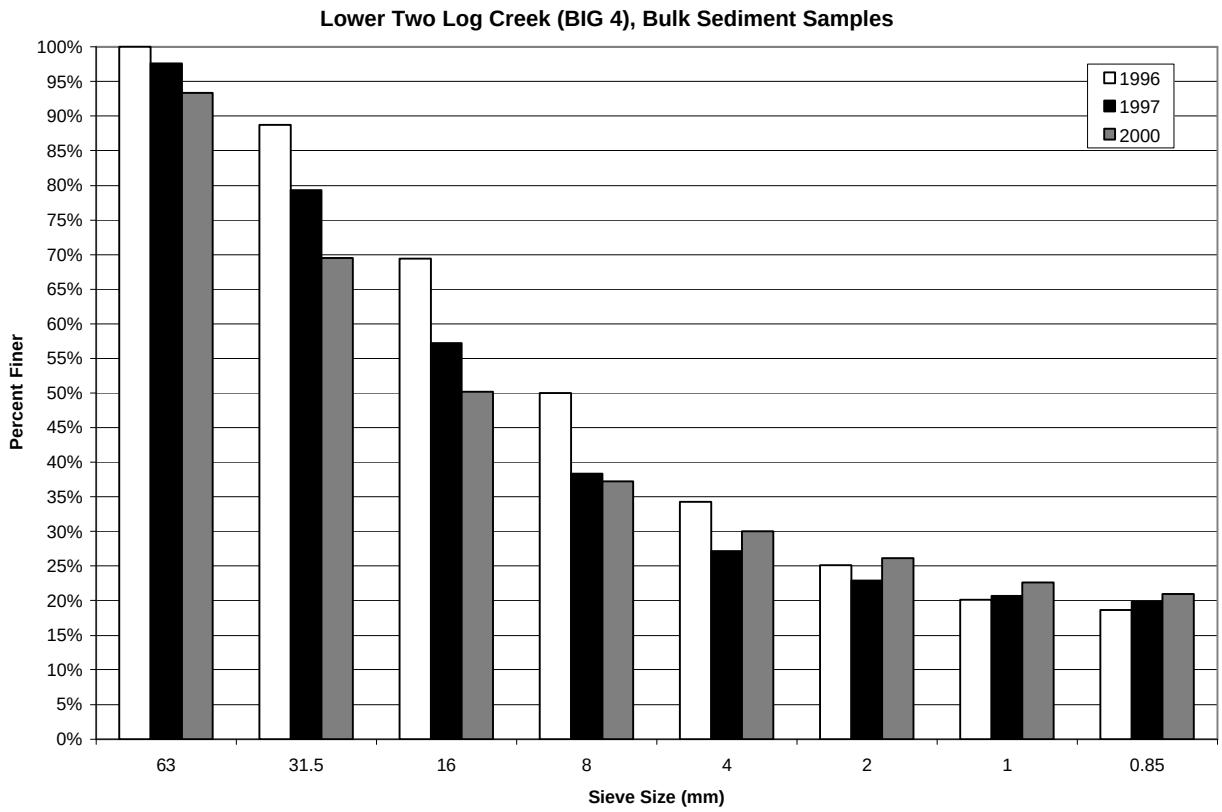


FIGURE 80: BULK SEDIMENT DATA SUMMARY (VOLUMETRIC), LNF BIG RIVER (HTC)

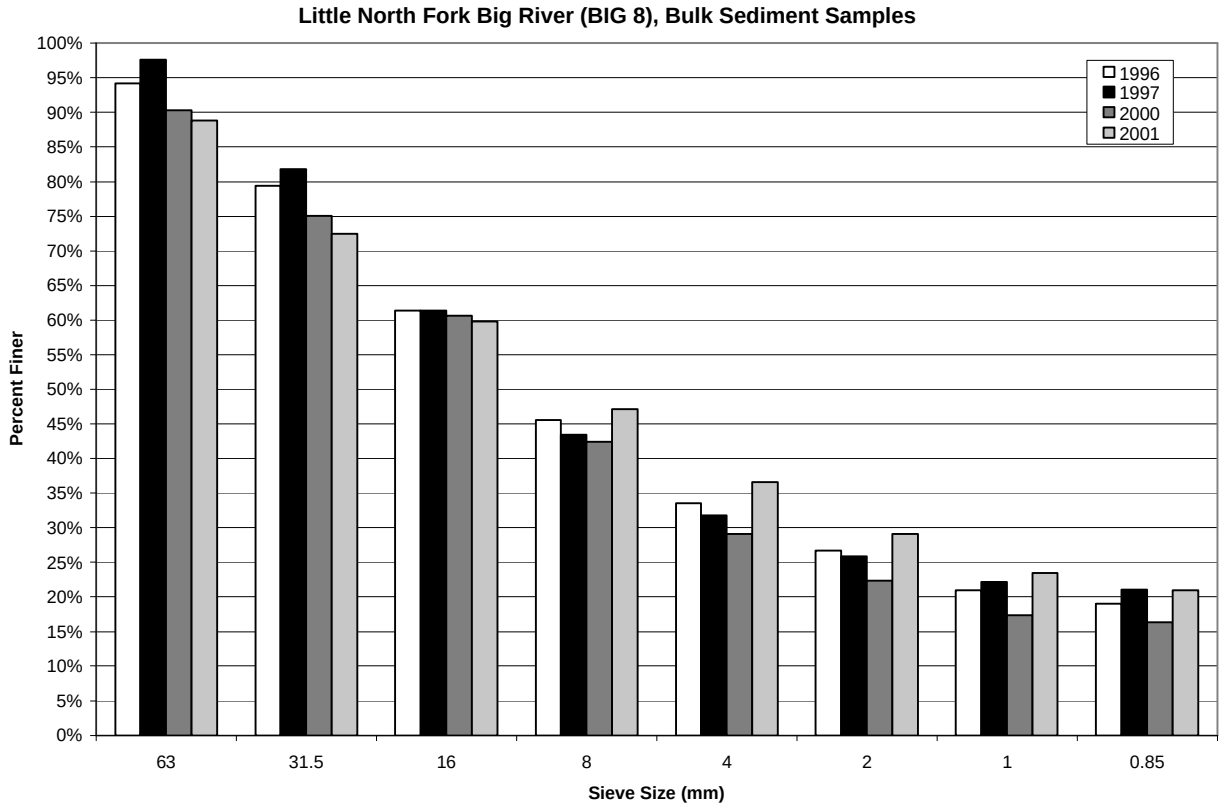


FIGURE 81: SEDIMENT RETAINED BY SIEVE SIZE, LOWER TWO LOG CREEK (HTC)

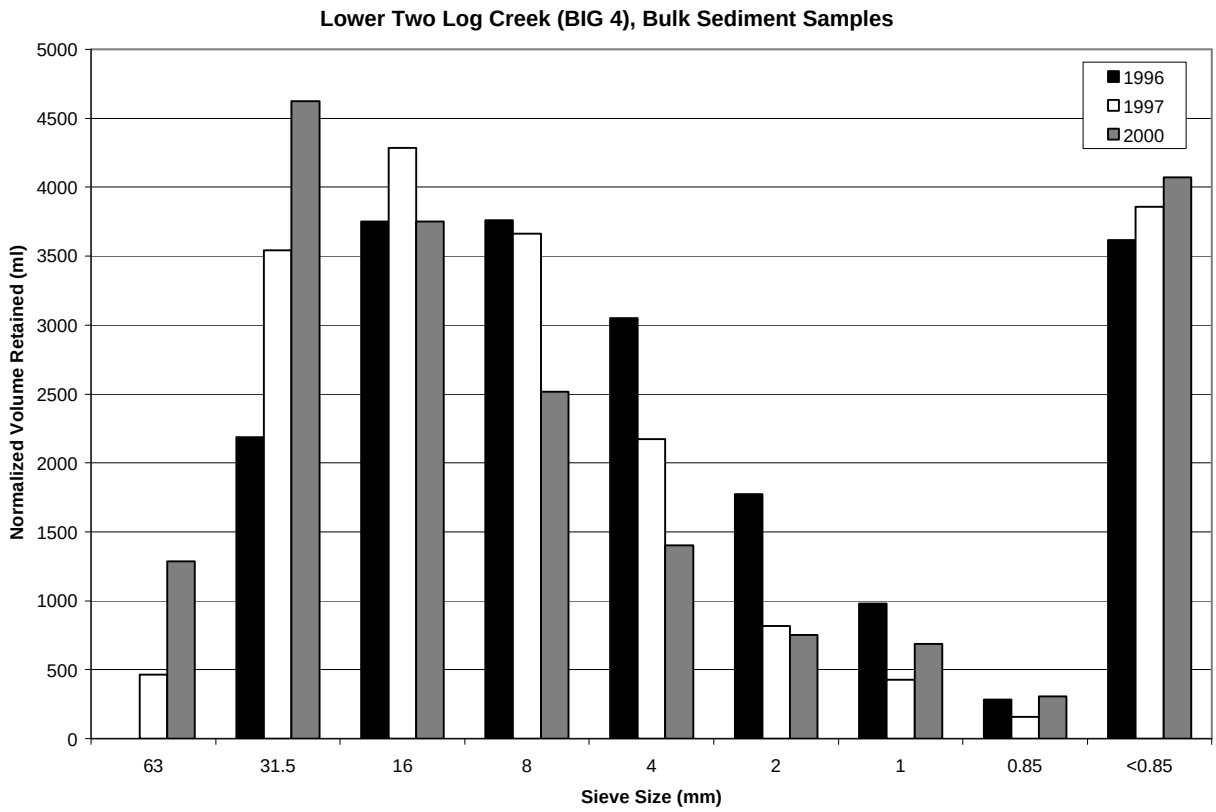


FIGURE 82: SEDIMENT RETAINED BY SIEVE SIZE, LNF BIG RIVER (HTC)

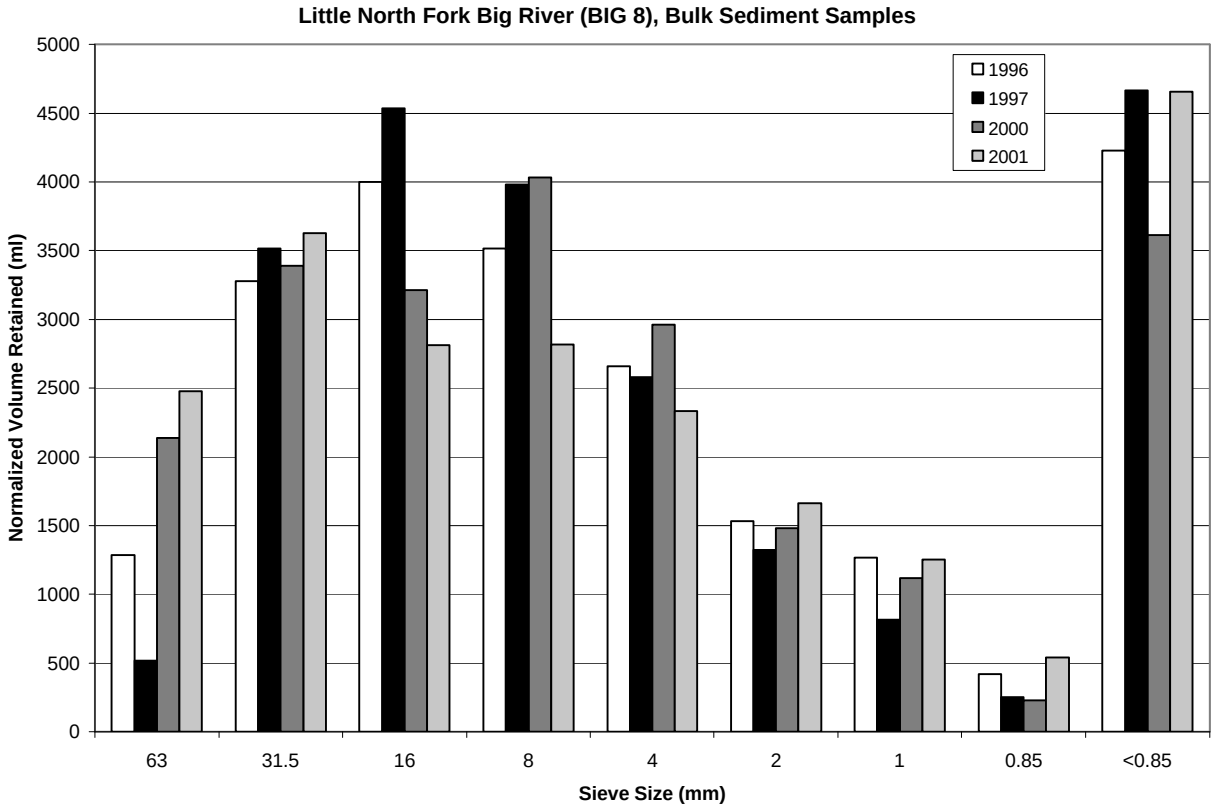


FIGURE 83: TDS, BIG RIVER ABOVE CONFLUENCE WITH LITTLE NORTH FORK (STORET)

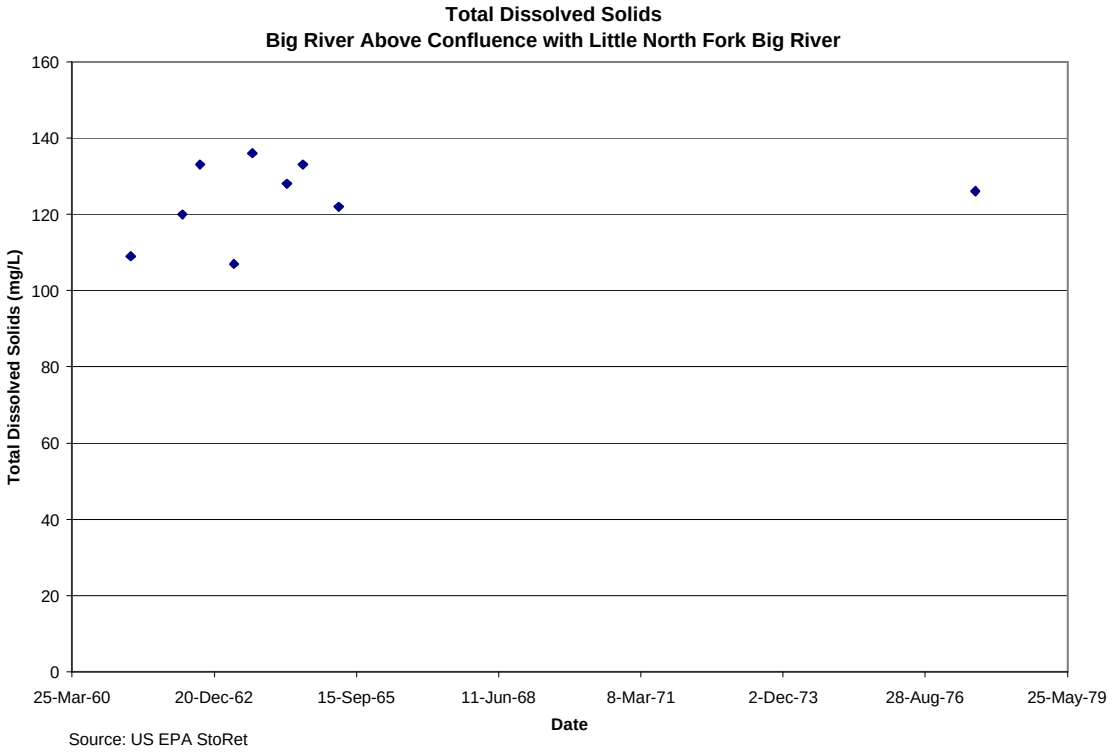


FIGURE 84: PH, BIG RIVER ABOVE CONFLUENCE WITH LITTLE NORTH FORK (STORET)

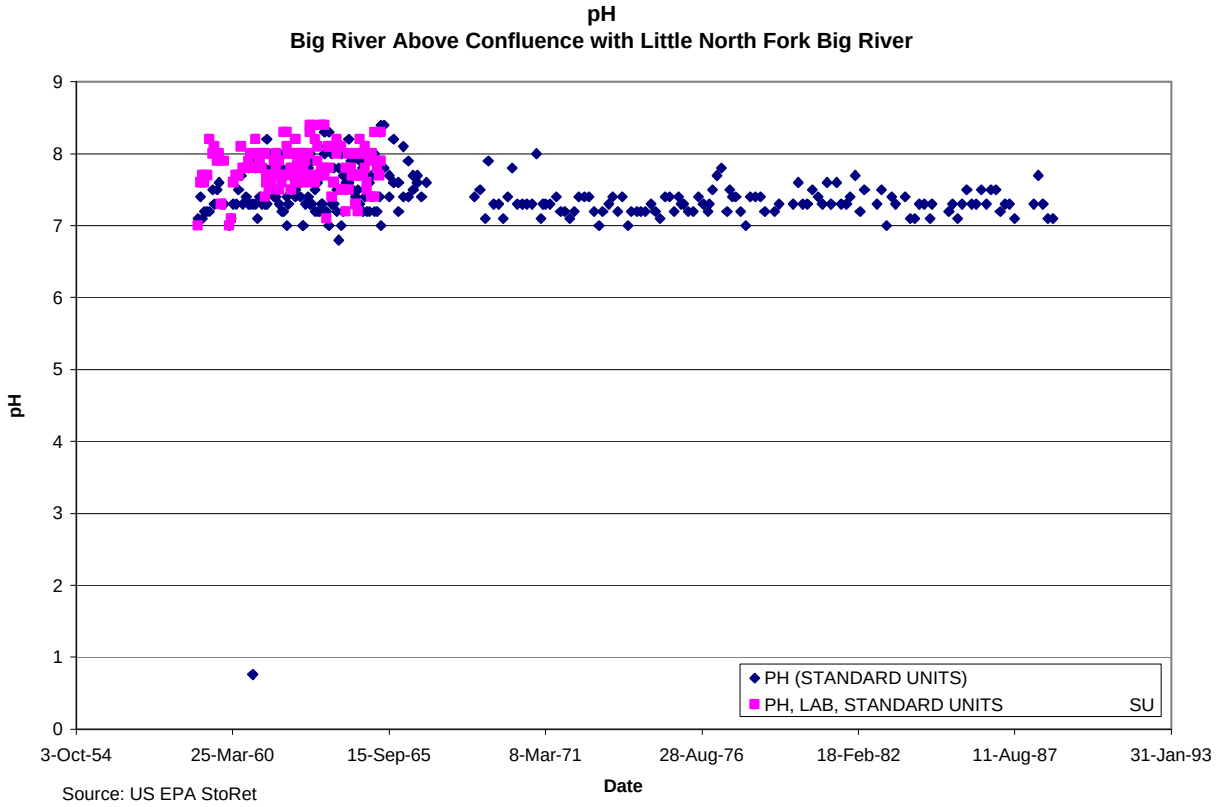


FIGURE 85: D.O., BIG RIVER ABOVE CONFLUENCE WITH LITTLE NORTH FORK (STORET)

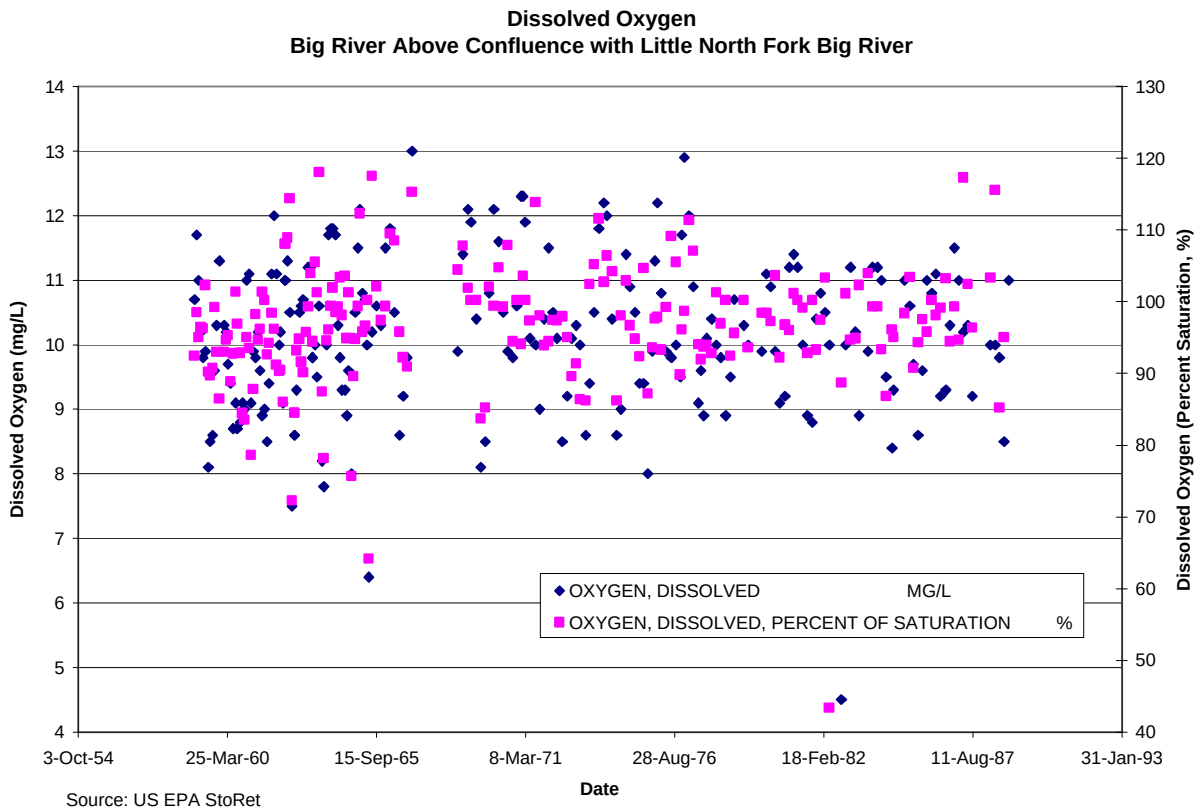


FIGURE 86: SPECIFIC CONDUCTANCE, BIG RIVER ABOVE CONFLUENCE WITH LITTLE NORTH FORK (STORET)

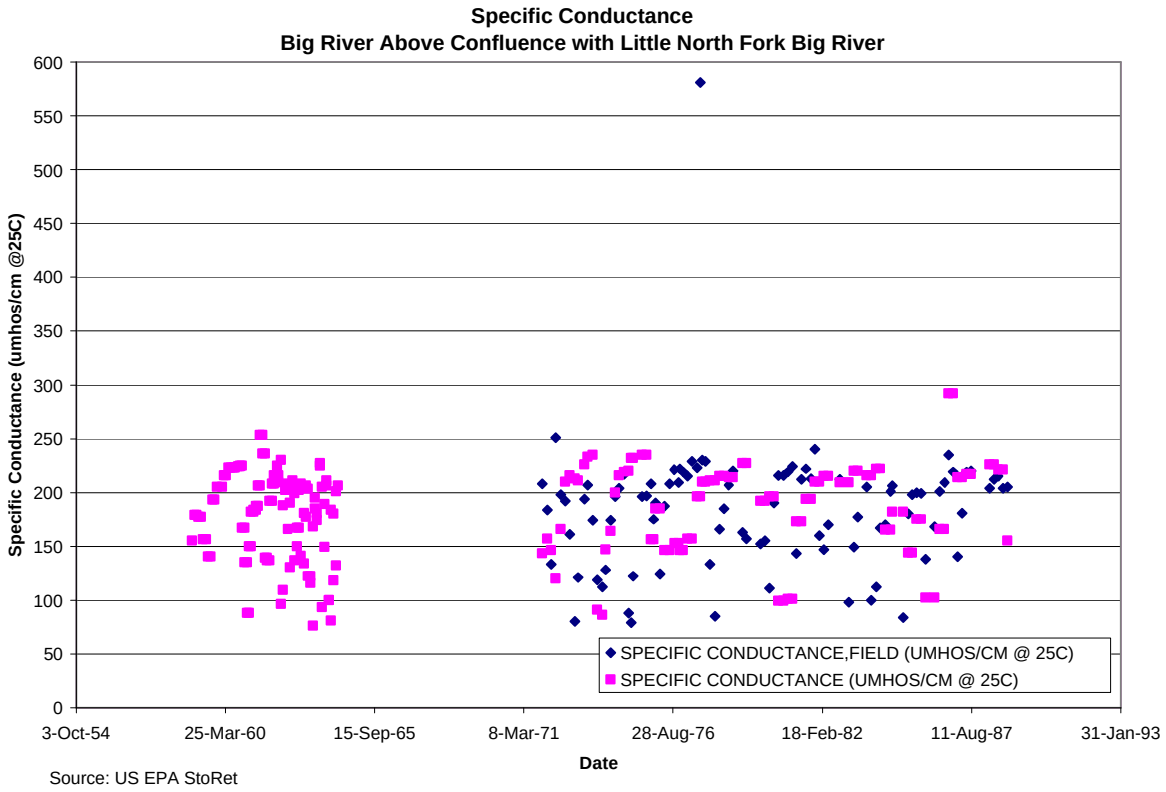
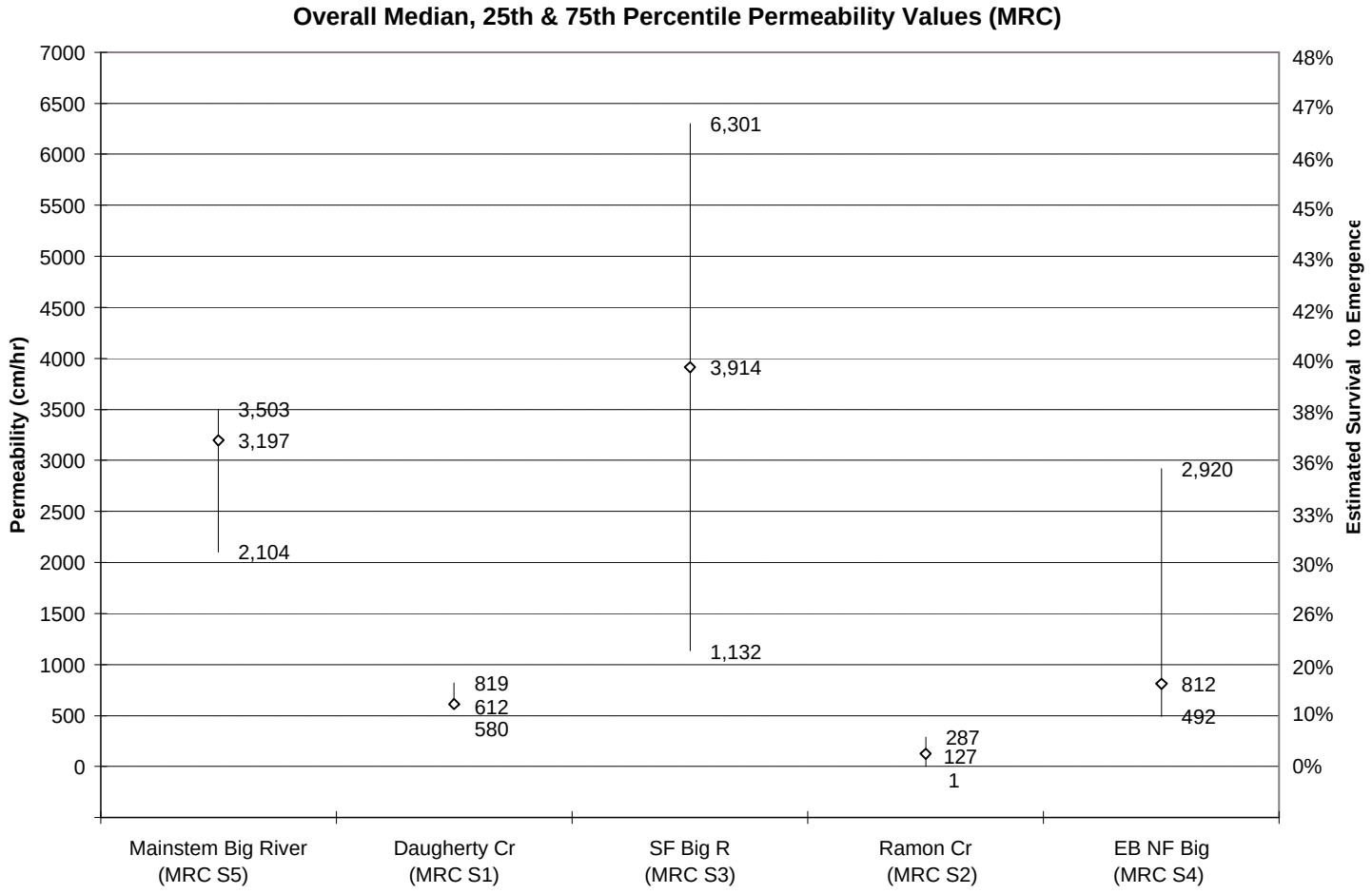


FIGURE 87: PERMEABILITY SUMMARY BY SITE (MRC)



Summary Data Tables

TABLE 29: YEARS MONITORED - WATER TEMPERATURE DATA

SITE IDENTIFIER	NAME OF STREAM/LOCATION	YEARS MONITORED[1]											
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
LOWER BIG RIVER SUB-BASIN													
JSF 541	Little North Fork Big River (Wonder Crossing)							X	X			X	
JSF 542	Little North Fork above Berry Gulch							X	X			X	
JSF 543	Berry Gulch above Little North Fork Big							X		X			
JSF 544	Thompson Gulch above Little North Fork confluence							X					O
JSF 545	Railroad Gulch above Marsh							X	X	X		X	
JSF 561	Lower Berry Gulch												O
JSF 562	Upper Little North Fork Big River												O
JSF 563	Railroad Gulch below unnamed tributary												O
HTC BIG2	Big River at Filing Shed Gulch				X								
HTC BIG8	Lower Little North Fork Big River				X	X	X	X		X		X	X
HTC BIG9	East Branch Little North Fork Big River				X	X	X			X		X	X
HTC BIG10	Upper Little North Fork Big River				X	X	X	X		X		X	X
HTC BIG11	Big River at Fritz Plot									X		X	
HTC BIG12	Laguna Creek							X					
HTC BIG14	Lower Little Laguna Creek									X			
MIDDLE BIG RIVER SUB-BASIN													
MRC 76-1	Big River below North Fork confluence				X	X					X		O
MRC 76-2	Lower Two Log Creek											X	X
MRC 76-20	Lower Beaver Pond Gulch												X
HTC BIG1	Big River at HTC/MRC property line				X	X	X	X		X		X	X
HTC BIG3	Hatch Gulch				X								
HTC BIG4	Lower Two Log Creek				X	X	X			X		O	X
HTC BIG5	Upper Two Log Creek				X								
HTC BIG7	Middle Big River				O								
HTC BIG13	Big River at Kidwell Gulch									X		X	X
UPPER BIG RIVER SUB-BASIN													
FSP 5219	Lower Martin Creek								X	X			
FSP 5235	Martin Creek above unnamed tributary								X	O			
FSP 5240	Unnamed Tributary to Martin Creek								X	X			
MRC 74-1	Big River at Wildhorse Opening			X	O	X						X	X
MRC 74-2	Lower Russell Brook	X					X					X	X
MRC 74-3	Big River at Pig Pen Gulch		X		X						X		X
MRC 74-20	Lower Johnston Gulch												X
MRC 74-21	Lower Wildhorse Gulch												X
NORTH FORK BIG RIVER SUB-BASIN													
JSF 527	Upper North Fork Big River							X					
JSF 528	North Fork Big River above James Creek							X	X			X	
JSF 529	North Fork Big River below James Creek							X					
JSF 530	North Fork Big River above Chamberlain Creek							X	X			X	
JSF 531	North Fork Big River below Chamberlain Creek							X					
JSF 532	North Fork Big River @ JSF boundary					X		X	X			X	
JSF 533	North Fork James Creek					X		X	X			X	
JSF 534	James Creek below North and Main Forks											X	
JSF 536	Upper Chamberlain Creek							X	X			X	
JSF 537	Chamberlain Creek below Arvola Gulch above #558							X				X	
JSF 538	Chamberlain Creek below West Chamberlain Creek							O				X	
JSF 539	Chamberlain Creek above North Fork Big							X	X			X	

SITE IDENTIFIER	NAME OF STREAM/LOCATION	YEARS MONITORED[1]											
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
JSF 540	West Chamberlain Creek below Gulch 16							X	X			X	
JSF 555	Lower Arvola Gulch									X			
JSF 556	Upper Arvola Gulch									X			
JSF 557	Chamberlain Creek above Arvola Gulch									X			
JSF 558	Chamberlain Creek below Arvola Gulch									X			
JSF 560	Middle Water Gulch											X	X
JSF 564	Lower Gulch 16												O
JSF 565	West Chamberlain Creek above Gulch 16												O
JSF 566	West Chamberlain Creek above Chamberlain Creek												O
JSF 567	Middle James Creek					X							
MRC 75-1	Middle East Branch North Fork Big River		X		X				X		X	X	X
MRC 75-3	Lower East Branch North Fork Big River								X				X
MRC 75-4	Lower North Fork Big River			X									
MRC 75-20	Lower Quail Gulch												O
MRC 75-22	Lower Frykman Gulch												X
MRC 75-23	Lower Steam Donkey Gulch												X
FSP 5213	Middle East Branch North Fork Big River								X	X			
FSP 5220	Upper North Fork Big River								X	X			
FSP 5234	Upper East Branch North Fork Big River								X	X			
FSP 5238	Upper North Fork Big River								X	X			
SOUTH FORK BIG RIVER SUB-BASIN													
JSF 552	Montgomery Creek above South Fork Big							X	X	X			
MRC 79-1	South Fork Big River above Big River							X	X		X	X	X
MRC 79-2	Lower Ramon Creek							X	X		X		
MRC 79-4	Lower Daugherty Creek	X	X						X		X	X	X
MRC 79-5	Upper Daugherty Creek (above Gates Creek)								X				
MRC 79-8	Lower North Fork Ramon Creek											X	
MRC 79-9	Lower Gates Creek								X				X
MRC 79-20	Lower No Name Gulch												X
MRC 79-21	Lower Goddard Gulch												X
MRC 79-22	Lower Donkey House Gulch												X
MWA 154	Lower Daugherty Creek										X	X	X
MWA 155	South Fork Big River (below Daugherty Creek)										X	X	X

[1]X = Data available and used in NCWAP assessment. O = Data available, but not used in NCWAP assessment (See Table 36 through Table 40, beginning on page 190 for a summary of the data quality issues).

TABLE 30: YEARS MONITORED - CHANNEL MEASUREMENTS, FLOW, MACROINVERTIBRATES & WATER QUALITY

SITE IDENTIFIER	NAME OF STREAM/LOCATION	DATA SOURCE	YEAR(S)	PARAMETERS MONITORED										
				Macro-invertibrates	V*	Pebble Count	Cross-Section	Thalweg	Turbidity	Suspended Sediment	Perme-ability	Bulk Sediment	Flow	Water Chemistry
LOWER BIG RIVER SUB-BASIN														
Berry Gulch	Berry Gulch	RWQCB	1992		X	X								
BIGMWD	Big River at Mendocino Woodlands	RWQCB	2001											X
GMA 12	Big River below Little North Fork	GMA	2001									X		
HTC BIG8	Little North Fork	HTC	1996-1997									X		
			2000-2001									X		
JSF M1	Lower Little North Fork	JSF	1995	X										
RWQCB 1	Big River above Little North Fork	StoRet	1959-1988											X
USGS	Big River above Little North Fork	StoRet	1960-1966											X
			1977											X
Vista Water Co.	Unnamed tributary to Big River	DHS	1988											X
			1993-1994											X
MIDDLE BIG RIVER SUB-BASIN														
GMA 10	Big River above Two Log Creek	GMA	2001									X		
GMA 11	Big River below South Fork Big River	GMA	2001									X		
HTC BIG4	Lower Two Log Creek	HTC	1996-1997									X		
			2000									X		
MRC S5	Big River below North Fork Big River	MRC	2000			X	X	X			X	X		
UPPER BIG RIVER SUB-BASIN														
GMA 6	Big River above South Fork Big River	GMA	2001						X	X			X	
NORTH FORK BIG RIVER SUB-BASIN														
CDF Chamberlain	Lower Chamberlain Creek	DHS	1991											X
			1993											X
			1996-1997											X
			1999-2000											X
GMA 1	Chamberlain Creek above North Fork Big River	GMA	2000						X	X			X	
			2001						X	X		X	X	
GMA 2	North Fork Big above Chamberlain Creek	GMA	2000						X	X			X	
			2001						X	X		X	X	
GMA 3	James Creek above North Fork Big River	GMA	2000						X	X			X	
			2001						X	X			X	

SITE IDENTIFIER	NAME OF STREAM/LOCATION	DATA SOURCE	YEAR(S)	PARAMETERS MONITORED										
				Macro-invertibrates	V*	Pebble Count	Cross-Section	Thalweg	Turbidity	Suspended Sediment	Perme-ability	Bulk Sediment	Flow	Water Chemistry
GMA 4	East Fork of North Fork Big above North Fork Big River	GMA	2000						X	X			X	
			2001						X	X		X	X	
GMA 5	North Fork Big above Big River	GMA	2000						X	X			X	
			2001						X	X		X	X	
GMA 13	North Fork Big above James Creek	GMA	2001									X		
MRC S4	East Branch NF Big River	MRC	2000			X	X	X			X	X		
RWQCB 2 – RWQCB 10	James Creek and unnamed tribtuary	RWQCB	2001-2002											X
SOUTH FORK BIG RIVER SUBBASIN														
GMA 7	South Fork Big River above Big River	GMA	2001						X	X		X	X	
GMA 8	South Fork Big River above Daugherty Creek	GMA	2001						X	X		X	X	
GMA 9	Daugherty Creek above South Fork Big River	GMA	2001						X	X		X	X	
GMA 14	South Fork Big River below Daugherty Creek	GMA	2001						X	X			X	
MRC S1	Daugherty Creek above South Fork Big River	MRC	2000			X	X	X			X	X		
MRC S2	Lower Ramon Creek	MRC	2000			X	X	X			X	X		
MRC S3	South Fork Big River above Big River	MRC	2000			X	X	X			X	X		
SFBIGD	South Fork Big River below Daugherty Creek	RWQCB	2001											X

TABLE 31: WATER TEMPERATURE DATA SUMMARY, LOWER BIG RIVER SUBBASIN

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4F	MAX INSTANTANEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
JSF 541 Little North Fork Big River (Wonder Crossing)	1996	06/11	09/30	0	-	2.79	57.32	07/31/96	58.28	07/11/96	58.93	07/29/96
	1997	06/16	09/30	0	-	3.08	58.30	09/04/97	59.09	07/29/97	59.77	07/25/97
	2000	06/07	09/21	0	-	3.35	57.25	08/04/00	58.40	08/03/00	58.64	06/15/00
JSF 542 Little North Fork above Berry Gulch	1996	06/11	09/30	0	-	5.63	59.60	07/31/96	61.94	07/09/96	62.06	06/30/96
	1997	06/16	09/30	0	-	4.79	60.47	09/04/97	61.65	07/25/97	62.35	07/25/97
	2000	06/03	09/21	0	-	5.63	58.88	08/06/00	61.00	06/21/00	62.35	06/15/00
JSF 543 Berry Gulch above Little North Fork Big	1996	06/11	09/30	0	-	4.79	58.90	07/31/96	60.35	07/11/96	61.48	07/29/96
	1998	06/17	09/29	0	-	4.75	58.73	08/06/98	60.14	08/06/98	61.48	08/04/98
JSF 544 Thompson Gulch above Little North Fork confluence	1996	06/21	09/30	0	-	2.52	56.75	08/01/96	57.16	08/02/96	57.79	07/30/96
	2001	07/06	10/29	3	6.97	-	-	-	-	-	-	-
JSF 545 Railroad Gulch above Marsh	1996	06/14	09/30	0	-	5.02	57.22	07/30/96	58.69	07/30/96	60.06	07/27/96
	1997	06/16	09/30	0	-	4.48	60.57	09/04/97	61.49	09/04/97	62.06	09/03/97
	1998	06/17	09/29	0	-	4.75	57.86	08/06/98	59.61	08/06/98	60.35	08/04/98
	2000	06/03	09/21	0	-	5.63	58.22	08/03/00	60.19	08/02/00	62.35	06/15/00
JSF 561 Lower Berry Gulch	2001	07/06	10/24	0	-	4.18	-	-	-	-	-	-
JSF 562 Upper Little North Fork Big River	2001	07/05	10/24	0	-	3.35	-	-	-	-	-	-
JSF 563 Railroad Gulch below unnamed tributary	2001	07/06	10/29	0	-	3.07	-	-	-	-	-	-
HTC BIG2 Big River at Filing Shed Gulch	1993	06/10	11/05	0	-	9.90	70.70	08/06/93	73.21	08/05/93	75.78	08/01/93
HTC BIG8 Lower Little North Fork Big River	1993	06/10	09/02	0	-	7.60	61.13	08/07/93	63.89	08/06/93	65.05	08/01/93
	1994	05/27	11/01	28	5.4	8.10	59.36	08/07/94	62.34	07/30/94	63.32	07/25/94
	1995	06/04	11/07	2	4.32	7.74	61.21	08/03/95	64.55	08/03/95	65.84	07/16/95
	1996	06/25	09/30	0	-	7.38	60.44	08/01/96	63.58	07/12/96	64.58	07/30/96
	1998	06/12	10/01	0	-	6.73	60.01	08/07/98	63.08	08/06/98	64.35	08/04/98
	2000	06/15	10/16	5	4.28	6.23	59.94	08/03/00	62.18	08/02/00	63.79	06/15/00
	2001	05/30	10/01	0	-	7.54	58.36	07/09/01	61.00	07/05/01	62.06	05/31/01
HTC BIG9 East Branch Little North Fork Big River	1993	07/03	11/15	1	5.11	6.17	60.17	08/07/93	62.75	08/06/93	63.82	08/02/93
	1994	05/27	11/01	20	5.22	7.20	59.57	08/16/94	62.21	08/07/94	63.32	08/04/94
	1995	06/04	11/06	1	4.14	5.94	60.06	08/03/95	62.78	08/03/95	63.50	07/31/95
	1998	06/12	10/01	0	-	5.06	59.04	09/08/98	60.91	08/07/98	62.06	08/04/98
	2000	06/14	10/16	0	-	4.75	57.84	08/03/00	59.41	08/03/00	59.77	06/15/00
	2001	05/30	10/01	0	-	4.73	56.96	08/10/01	57.44	08/11/01	58.08	08/09/01

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4F	MAX INSTANTANEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
HTC BIG10 Upper Little North Fork Big River	1993	06/10	11/15	0	-	5.62	60.49	08/07/93	62.90	08/06/93	64.15	08/02/93
	1994	05/28	11/01	9	4.86	6.84	58.22	07/28/94	61.47	07/10/94	61.88	07/07/94
	1995	04/22	09/26	23	5.04	6.30	60.04	06/22/95	63.83	06/22/95	64.94	06/20/95
	1996	06/25	09/30	0	-	4.32	58.92	08/01/96	61.06	08/03/96	62.06	07/30/96
	1998	06/14	10/01	0	-	5.15	58.89	08/07/98	61.77	08/07/98	62.92	08/04/98
	2000	06/14	10/16	6	4.79	5.35	58.56	08/03/00	60.96	08/03/00	61.77	06/15/00
	2001	05/30	10/01	1	4.19	5.60	57.85	08/10/01	59.61	08/10/01	60.64	08/09/01
HTC BIG11 Big River at Fritz Plot	1998	06/06	10/01	17	5.62	9.49	69.51	07/20/98	74.08	07/20/98	74.79	07/18/98
	2000	06/08	11/07	0	-	7.94	68.34	08/02/00	71.99	08/02/00	73.56	06/15/00
HTC BIG12 Laguna Creek	1996	07/10	09/30	0	-	3.96	60.13	08/01/96	60.95	09/03/96	62.06	08/31/96
HTC BIG14 Lower Little Laguna Creek	1998	06/09	10/01	0	-	5.71	60.95	07/20/98	63.45	07/20/98	64.06	06/15/98

[1] Date of MWAT and MWMT is the end of the seven day averaging period. If there is more than one MWAT, MWMT or Max temperature in a given year, the date of the first occurrence is given.

TABLE 32: WATER TEMPERATURE DATA SUMMARY, MIDDLE BIG RIVER SUBBASIN

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4°F	MAX INSTANTANEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
MRC 76-1 Big River below North Fork confluence	1993	06/10	09/04	0	-	12.78	65.98	08/07/93	69.95	07/01/93	72.68	06/20/93
	1994	06/16	09/22	-	-	-	66.79	08/16/94	72.63	08/16/94	73.40	08/12/94
	1999	06/05	09/27	0	-	9.74	66.92	07/16/99	71.32	07/15/99	72.91	07/12/99
	2001	05/20	05/26	-	-	-	-	-	-	-	-	-
MRC 76-2 Lower Two Log Creek	2000	05/26	10/19	0	-	6.70	60.47	08/03/00	63.13	08/02/00	64.08	07/31/00
	2001	05/26	10/10	0	-	7.65	58.65	07/05/01	61.48	07/05/01	62.85	07/03/01
MRC 76-20 Lower Beaver Pond Gulch	2001	06/06	10/10	0	-	4.21	56.19	08/10/01	56.76	08/10/01	57.36	08/08/01
HTC BIG1 Big River at HTC/MRC property line	1993	06/09	11/05	0	-	7.49	69.37	08/07/93	71.57	08/06/93	73.29	08/02/93
	1994	05/28	11/01	7	4.5	8.10	69.46	08/08/94	72.22	08/07/94	73.22	08/04/94
	1995	06/04	11/21	37	5.2	8.64	69.57	08/05/95	73.32	08/05/95	74.48	07/16/95
	1996	06/18	09/30	81	7.38	9.18	69.02	08/01/96	73.12	08/16/96	74.48	07/29/96
	1998	06/11	10/01	41	4.93	9.74	69.15	08/08/98	73.55	08/07/98	75.36	08/04/98
	2000	06/08	11/06	66	7.29	10.48	69.23	08/03/00	75.05	08/03/00	76.30	08/02/00
	2001	05/31	10/01	29	5.83	11.36	67.91	07/06/01	73.30	07/06/01	74.43	07/03/01
HTC BIG3 Hatch Gulch	1993	06/09	11/05	0	-	5.62	60.32	08/07/93	61.59	08/07/93	62.44	08/02/93
HTC BIG4 Lower Two Log Creek	1993	06/09	11/05	0	-	11.95	63.66	08/07/93	66.41	08/06/93	67.95	08/01/93
	1994	05/28	11/01	0	-	9.00	59.86	07/03/94	62.55	06/14/94	65.30	06/10/94
	1995	06/04	11/07	0	-	7.92	62.75	07/21/95	64.27	06/29/95	66.20	06/25/95
	1998	06/06	10/01	0	-	7.88	61.49	08/07/98	63.62	08/07/98	64.94	08/04/98
	2000	06/07	07/20	0	-	-	-	-	-	-	-	-
	2001	05/30	10/01	0	-	6.70	57.50	07/05/01	58.97	07/04/01	61.48	05/31/01
HTC BIG5 Upper Two Log Creek	1993	06/09	08/30	0	-	3.92	59.69	08/07/93	60.73	08/07/93	61.84	08/02/93
HTC BIG7 Middle Big River	1993	09/02	11/05	2	4.16	-	-	-	-	-	-	-
HTC BIG13 Big River at Kidwell Gulch	1998	06/06	10/12	70	6.59	11.14	69.53	08/07/98	75.14	08/07/98	76.78	08/04/98
	2000	06/08	11/06	87	6.35	10.76	69.17	08/03/00	74.80	08/02/00	76.17	06/15/00
	2001	06/13	10/01	90	8.82	10.76	68.42	07/06/01	73.30	07/06/01	74.73	08/09/01

[1] Date of MWAT and MWMT is the end of the seven day averaging period. If there is more than one MWAT, MWMT or Max temperature in a given year, the date of the first occurrence is given.

TABLE 33: WATER TEMPERATURE DATA SUMMARY, UPPER BIG RIVER SUBBASIN

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4°F	MAX INSTANTEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
FSP 5219 Lower Martin Creek	1997	06/13	09/30	86	5.58	12.42	65.43	08/10/97	71.16	07/25/97	72.32	08/07/97
	1998	06/09	09/24	54	5.58	11.70	64.84	08/16/98	70.44	08/07/98	72.32	08/04/98
FSP 5235 Martin Creek above unnamed tributary	1997	06/13	09/30	76	10.26	12.42	63.17	07/26/97	70.55	08/18/97	72.32	08/14/97
	1998	06/04	06/20	8	-	-	-	-	-	-	-	-
FSP 5240 Unnamed tributary to Martin Creek	1997	06/13	09/30	53	9.54	10.98	62.59	08/10/97	67.49	07/15/97	68.90	07/15/97
	1998	06/04	10/04	175	12.65	14.99	64.02	08/16/98	73.78	08/06/98	75.06	08/04/98
MRC 74-1 Big River at Wildhorse Opening	1992	07/01	09/30	-	-	-	68.13	07/20/92	73.14	07/19/92	74.30	07/08/92
	1993	06/10	07/18	-	-	-	-	-	-	-	-	-
	1994	07/27	09/22	-	-	-	66.20	08/13/94	70.06	08/15/94	70.70	08/11/94
	2000	06/03	10/17	24	4.97	10.82	66.79	06/21/00	71.16	06/20/00	73.20	06/15/00
	2001	05/21	10/14	83	5.8	12.87	67.77	07/09/01	73.06	07/08/01	74.88	07/04/01
MRC 74-2 Lower Russell Brook	1990	06/29	10/23	0	-	6.66	59.41	07/26/90	62.34	07/11/90	62.60	07/16/90
	1995	07/06	09/22	-	-	-	61.96	07/15/95	64.25	07/20/95	66.20	07/16/95
	2000	05/26	10/19	0	-	6.70	60.85	08/05/00	63.08	06/20/00	64.53	06/15/00
	2001	05/21	10/07	0	-	8.37	58.86	07/09/01	62.19	07/09/01	63.50	07/03/01
MRC 74-3 Big River at Pig Pen Gulch	1991	07/06	10/01	0	-	9.36	64.32	07/20/91	67.79	07/19/91	70.52	07/15/91
	1993	06/10	09/03	0	-	14.76	65.87	08/07/93	69.90	06/30/93	72.68	06/19/93
	1999	06/11	09/27	0	-	9.22	65.87	07/16/99	70.04	07/16/99	71.71	07/13/99
	2001	05/21	10/14	67	5.49	10.67	65.86	07/09/01	69.61	07/08/01	71.76	07/04/01
MRC 74-20 Lower Johnston Gulch	2001	06/08	10/07	0	-	2.79	57.54	08/14/01	58.24	08/13/01	58.73	08/08/01
MRC 74-21 Lower Wildhorse Gulch	2001	06/08	09/03	0	-	4.14	58.45	08/13/01	59.22	08/11/01	60.12	08/08/01

[1] Date of MWAT and MWMT is the end of the seven day averaging period. If there is more than one MWAT, MWMT or Max temperature in a given year, the date of the first occurrence is given.

TABLE 34: WATER TEMPERATURE DATA SUMMARY, NORTH FORK BIG RIVER SUBBASIN

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4F	MAX INSTANTANEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
JSF 527 Upper North Fork Big River	1996	06/11	09/22	2	4.37	11.23	65.97	07/30/96	71.63	07/30/96	73.81	07/29/96
JSF 528 North Fork Big River above James Creek	1996	06/11	09/22	5	4.36	9.74	65.91	07/30/96	69.16	07/30/96	71.11	07/29/96
	1997	06/16	09/30	16	4.63	10.24	65.53	07/26/97	69.70	07/25/97	70.50	08/07/97
	2000	06/07	09/21	0	-	9.54	65.48	06/21/00	68.70	06/21/00	70.50	06/15/00
JSF 529 North Fork Big River below James Creek	1996	06/11	09/22	14	4.63	9.74	65.25	07/30/96	69.16	07/30/96	71.11	07/29/96
JSF 530 North Fork Big River above Chamberlain Creek	1996	06/11	09/22	0	-	8.05	65.21	07/30/96	68.57	07/30/96	70.81	07/29/96
	1997	06/16	09/30	0	-	8.42	65.16	07/26/97	68.85	07/25/97	69.91	07/25/97
	2000	06/07	09/21	0	-	8.05	64.91	06/21/00	67.94	06/21/00	69.60	06/15/00
JSF 531 North Fork Big River below Chamberlain Creek	1996	06/11	09/22	0	-	7.99	64.20	07/31/96	67.52	07/30/96	69.60	07/29/96
JSF 532 North Fork Big River @ JSF boundary	1994	07/07	09/19	0	-	6.89	63.39	07/13/94	66.28	07/13/94	67.86	07/07/94
	1996	06/11	09/30	0	-	6.61	64.27	07/12/96	66.60	07/11/96	67.26	07/06/96
	1997	06/16	09/30	0	-	5.80	64.57	07/29/97	66.81	07/26/97	67.86	07/25/97
	2000	06/07	09/21	0	-	6.05	63.98	06/21/00	66.19	06/21/00	67.57	06/15/00
JSF 533 North Fork James Creek	1994	07/07	09/19	0	-	8.15	57.57	07/13/94	60.88	07/18/94	61.77	07/17/94
	1996	06/11	09/22	0	-	6.19	59.14	07/30/96	61.94	08/15/96	62.92	07/29/96
	1997	06/16	09/30	0	-	6.23	58.91	08/11/97	61.70	08/08/97	63.21	08/07/97
	2000	06/07	09/21	0	-	6.21	58.60	08/05/00	61.33	08/04/00	62.64	08/02/00
JSF 534 James Creek below North and Main Forks	2000	06/07	10/04	0	-	8.26	61.04	08/05/00	64.44	08/04/00	65.71	08/02/00
JSF 536 Upper Chamberlain Creek	1996	06/11	09/22	0	-	3.65	58.12	08/15/96	59.78	08/15/96	60.35	08/11/96
	1997	06/16	09/30	0	-	3.91	57.61	08/10/97	59.13	08/08/97	60.35	08/07/97
	2000	06/07	09/21	0	-	4.48	57.29	09/21/00	59.05	08/04/00	60.06	08/02/00
JSF 537 Chamberlain Creek below Arvola Gulch, above JSF 558	1996	06/11	09/22	0	-	6.48	60.91	07/31/96	63.50	07/30/96	64.96	07/29/96
	2000	06/07	10/04	0	-	7.40	60.29	08/05/00	63.51	08/06/00	64.71	08/02/00
JSF 538 Chamberlain Creek below West Chamberlain Creek	1996	06/11	06/27	-	-	-	-	-	-	-	-	-
	2000	06/07	10/04	0	-	7.92	61.48	08/04/00	63.86	08/04/00	65.10	08/02/00
JSF 539 Chamberlain Creek above North Fork Big	1996	06/11	09/22	0	-	8.51	63.35	07/31/96	66.78	07/30/96	69.03	07/29/96
	1997	06/16	09/30	1	4.36	8.51	63.05	08/09/97	66.69	07/25/97	68.43	07/25/97
	2000	06/07	09/21	0	-	7.40	62.43	08/04/00	65.45	08/03/00	66.97	08/02/00
JSF 540 West Chamberlain Creek below Gulch 16	1996	06/11	09/22	0	-	5.89	59.35	07/31/96	61.16	07/30/96	62.35	07/29/96
	1997	06/16	09/30	0	-	5.04	59.00	08/13/97	60.27	08/09/97	61.48	08/07/97
	2000	06/07	09/21	0	-	5.60	58.37	08/04/00	60.18	08/04/00	61.20	08/02/00

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4F	MAX INSTANTANEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
JSF 555 Lower Arvola Gulch	1998	06/04	10/06	0	-	7.02	60.60	08/16/98	63.05	08/07/98	64.20	08/04/98
JSF 556 Upper Arvola Gulch	1998	06/04	10/05	0	-	9.18	60.80	08/16/98	65.83	08/07/98	67.41	08/04/98
JSF 557 Chamberlain Creek above Arvola Gulch	1998	06/05	10/05	0	-	6.14	60.33	08/16/98	62.77	08/07/98	64.06	08/04/98
JSF 558 Chamberlain Creek below Arvola Gulch	1998	06/06	10/05	88	6.82	9.76	61.45	08/16/98	67.28	08/16/98	68.61	08/04/98
JSF 560 Middle Water Gulch	2000	06/13	10/13	0	-	3.36	58.39	08/05/00	59.75	08/04/00	60.77	08/02/00
	2001	06/14	10/23	0	-	3.91	57.14	07/09/01	58.14	07/09/01	59.35	07/04/01
JSF 564 Lower Gulch 16	2001	07/05	10/23	0	-	4.18	-	-	-	-	-	-
JSF 565 West Chamberlain Creek above Gulch 16	2001	07/06	10/23	0	-	5.65	-	-	-	-	-	-
JSF 566 West Chamberlain Creek Above Chamberlain Creek	2001	07/06	11/05	0	-	5.09	-	-	-	-	-	-
JSF 567 Middle James Creek	1994	07/07	09/19	0	-	11.47	62.83	07/13/94	68.56	07/13/94	69.03	07/08/94
MRC 75-1 Middle East Branch North Fork Big River	1991	07/05	10/01	0	-	10.44	64.50	08/04/91	68.44	08/04/91	70.52	07/15/91
	1993	06/10	09/04	0	-	13.68	65.32	08/07/93	70.42	08/07/93	72.32	08/02/93
	1997	06/21	09/24	39	5.78	10.52	64.25	07/29/97	69.31	07/26/97	70.50	07/25/97
	1999	06/11	09/27	0	-	9.92	62.80	08/30/99	66.60	07/15/99	68.18	07/12/99
	2000	05/26	10/19	0	-	8.66	62.84	06/21/00	65.84	06/21/00	67.08	06/15/00
	2001	05/21	10/04	0	-	9.00	61.59	07/09/01	64.51	07/08/01	66.27	07/04/01
MRC 75-3 Lower East Branch North Fork Big River	1997	06/21	09/24	6	4.5	9.34	64.20	07/29/97	68.12	07/26/97	68.95	07/25/97
	2001	05/26	10/04	32	6.21	11.75	61.32	07/06/01	65.29	07/08/01	66.96	07/03/01
MRC 75-4 Lower North Fork Big River	1992	07/01	09/30	-	-	5.40	66.64	07/19/92	69.03	07/20/92	69.80	07/18/92
MRC 75-20 Lower Quail Gulch	2001	06/06	08/06	0	-	-	-	-	-	-	-	-
MRC 75-22 Lower Frykman Gulch	2001	06/06	10/04	0	-	3.49	56.46	08/14/01	56.86	08/14/01	57.36	08/09/01
MRC 75-23 Lower Steam Donkey Gulch	2001	06/08	10/04	0	-	3.51	55.81	07/09/01	56.86	07/06/01	58.05	07/03/01
FSP 5213 Middle East Branch North Fork Big River	1997	07/10	09/30	24	4.63	10.30	62.90	08/10/97	68.10	07/25/97	69.03	08/07/97
	1998	06/09	10/04	1	4.14	9.00	62.34	08/07/98	66.82	08/06/98	68.36	08/04/98
FSP 5220 Upper North Fork Big River	1997	07/10	09/30	0	-	8.30	63.19	07/27/97	66.64	07/26/97	66.97	07/21/97
	1998	06/09	10/04	85	5.58	10.98	63.50	08/16/98	69.16	08/07/98	71.06	08/04/98
FSP 5234 Upper East Branch North Fork Big River	1997	06/26	09/30	0	-	4.79	60.11	07/27/97	62.11	07/26/97	62.67	07/25/97
	1998	06/09	10/04	0	-	5.58	60.34	08/16/98	61.67	08/16/98	62.78	08/04/98
FSP 5238	1997	07/10	08/28	0	-	9.11	62.68	07/26/97	66.64	07/25/97	67.26	08/07/97

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4F	MAX INSTANTANEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
Upper North Fork Big River	1998	06/09	10/04	38	4.81	11.07	63.11	08/16/98	67.65	08/06/98	69.60	08/04/98

[1] Date of MWAT and MWMT is the end of the seven day averaging period. If there is more than one MWAT, MWMT or Max temperature in a given year, the date of the first occurrence is given.

TABLE 35: WATER TEMPERATURE DATA SUMMARY, SOUTH FORK BIG RIVER SUBBASIN

MONITORING SITE AND STREAM LOCATION	YEAR	START DATE	END DATE	TEMP FLUC > 4F	MAX INSTANTEOUS CHANGE (F)	MAX DIURNAL CHANGE (F)	MWAT (F)	DATE OF MWAT[1]	MWMT (F)	DATE OF MWMT[1]	MAX TEMP (F)	DATE OF MAX
JSF 552 Montgomery Creek above South Fork Big	1996	06/21	09/30	0	-	4.54	59.84	08/01/96	61.65	08/15/96	62.35	07/30/96
	1997	06/16	09/30	0	-	4.57	59.57	08/11/97	61.33	08/09/97	62.92	08/07/97
	1998	07/17	10/02	0	-	4.48	60.25	09/08/98	61.61	09/08/98	62.26	09/07/98
MRC 79-1 South Fork Big River above Big River	1996	06/07	09/23	11	4.35	8.75	68.99	07/31/96	72.48	07/31/96	74.43	07/30/96
	1997	06/19	09/24	21	5.33	6.82	68.91	08/09/97	72.30	08/09/97	73.42	08/07/97
	1999	06/05	09/27	0	-	9.00	67.97	07/16/99	71.26	07/15/99	73.09	07/13/99
	2000	05/26	10/21	8	4.32	9.99	68.76	06/21/00	72.29	06/20/00	73.83	06/15/00
	2001	05/21	10/08	38	5.4	10.58	67.15	07/09/01	71.04	08/11/01	72.54	08/07/01
MRC 79-2 Lower Ramon Creek	1996	06/06	09/24	75	7.18	13.65	65.65	07/13/96	71.28	07/12/96	72.61	07/01/96
	1997	06/19	09/24	81	5.81	11.87	65.15	07/25/97	70.11	07/25/97	71.08	08/07/97
	1999	06/05	09/27	0	-	8.31	65.62	07/16/99	69.34	07/15/99	71.62	07/13/99
MRC 79-4 Lower Daugherty Creek	1990	06/28	10/19	0	-	11.34	65.71	07/12/90	70.75	07/12/90	71.42	07/08/90
	1991	07/06	10/01	12	4.5	10.62	66.67	08/05/91	71.01	08/04/91	73.04	07/15/91
	1997	06/21	09/23	45	5.51	10.05	65.09	08/10/97	69.61	07/26/97	71.40	08/07/97
	1999	06/19	09/28	48	5.5	9.12	64.82	07/16/99	68.64	08/29/99	70.83	08/27/99
	2000	05/31	10/08	1	4.25	8.98	66.16	06/21/00	69.29	06/21/00	71.19	06/16/00
	2001	05/21	10/08	45	5.8	11.34	65.07	07/09/01	68.69	07/09/01	70.66	07/04/01
MRC 79-5 Upper Daugherty Creek (above Gates Creek)	1997	06/21	09/21	13	5.15	9.98	65.66	07/26/97	69.01	07/25/97	69.64	07/20/97
MRC 79-9 Lower Gates Creek	1997	06/21	09/23	16	4.61	9.63	64.84	07/26/97	68.44	08/09/97	70.83	08/07/97
	2001	05/22	10/08	2	4.57	9.86	61.72	07/09/01	64.66	07/07/01	67.26	07/04/01
MRC 79-8 Lower North Fork Ramon Creek	2000	05/26	10/21	0	-	7.54	59.22	08/05/00	61.57	08/05/00	62.92	06/16/00
MRC 79-20 Lower No Name Gulch	2001	06/07	10/08	2	4.18	7.70	57.26	08/13/01	59.71	07/28/01	60.80	07/24/01
MRC 79-21 Lower Goddard Gulch	2001	06/08	10/08	0	-	2.09	56.84	08/14/01	57.16	07/09/01	58.05	07/05/01
MRC 79-22 Lower Donkey House Gulch	2001	06/08	10/08	0	-	3.51	55.27	08/14/01	55.27	08/10/01	55.27	08/04/01
MWA 154 Lower Daugherty Creek	1999	06/15	09/25	0	-	8.57	64.52	07/16/99	68.15	07/16/99	70.21	07/13/99
	2000	06/13	10/10	0	-	8.32	65.66	06/21/00	68.65	08/04/00	70.50	08/02/00
	2001	06/14	10/10	0	-	7.65	63.40	07/09/01	66.12	07/06/01	67.86	07/04/01
MWA 155 South Fork Big River (below Daugherty Creek)	1999	06/16	09/25	0	-	8.30	64.86	07/16/99	67.82	07/15/99	69.91	07/13/99
	2000	06/13	10/10	0	-	7.54	66.55	06/21/00	69.20	06/21/00	71.11	06/16/00
	2001	06/14	10/10	0	-	8.03	64.42	07/09/01	67.28	07/08/01	69.32	07/04/01

[1] Date of MWAT and MWMT is the end of the seven day averaging period. If there is more than one MWAT, MWMT or Max temperature in a given year, the date of the first occurrence is given.

TABLE 36: WATER TEMPERATURE DATA QUALITY ISSUES, LOWER BIG RIVER SUBBASIN

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
HTC Big 2 Big River at Filing Shed Gulch	1993	• Maximum temperature of 75.78°F • Logger stopped recording for 2.05 days	Use data. Interruption does not appear to have occurred during times of peak temperature and logger appears to have remained submerged.
HTC Big 8 Lower Little North Fork Big River	1994	• Consecutive data points >4°F apart on 28 occasions (5.4°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 2 occasions (4.32°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1996	• Data collection began June 25	Use data. Based on other sites that year, it is likely that peak temperatures were recorded.
	2000	• Consecutive data points >4°F apart on 5 occasions (4.28°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
HTC Big 9 East Branch Little North Fork Big River	1993	• Consecutive data points >4°F apart on 1 occasion (5.11°F max, 72 minute interval)	Use data. Logger appears to have remained submerged.
	1994	• Consecutive data points >4°F apart on 20 occasions (5.22°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 1 occasion (4.14°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
HTC Big 10 Upper Little North Fork Big River	1994	• Consecutive data points >4°F apart on 9 occasions (4.86°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 23 occasions (5.04°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1996	• Data collection began June 25	Use data. Based on other sites that year, it is likely that peak temperatures were recorded.
	2000	• Consecutive data points >4°F apart on 6 occasions (5.79°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 1 occasion (4.19°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
HTC Big 11 Big River at Fritz Plot	1998	• Consecutive data points >4°F apart on 17 occasions (5.62°F max, 96 minute interval) • Maximum temperature of 74.79°F	Use data. Logger appears to have remained submerged.
	2000	• Maximum temperature of 73.56°F	Use data. Logger appears to have remained submerged.
HTC Big 12 Laguna Creek	1996	• Data collection began July 10 • Unusual diurnal fluctuations	Use data. Based on other sites that year, it is likely that peak temperatures were recorded.
JSF 544 Thompson Gulch above Little North Fork confluence	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 561 Lower Berry Gulch	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 562 Upper Little North Fork Big River	2001	• Data collection began July 5	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 563 Railroad Gulch below unnamed tributary	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.

TABLE 36: WATER TEMPERATURE DATA QUALITY ISSUES, LOWER BIG RIVER SUBBASIN

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
HTC Big 2 Big River at Filing Shed Gulch	1993	• Maximum temperature of 75.78°F • Logger stopped recording for 2.05 days	Use data. Interruption does not appear to have occurred during times of peak temperature and logger appears to have remained submerged.
HTC Big 8 Lower Little North Fork Big River	1994	• Consecutive data points >4°F apart on 28 occasions (5.4°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 2 occasions (4.32°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1996	• Data collection began June 25	Use data. Based on other sites that year, it is likely that peak temperatures were recorded.
	2000	• Consecutive data points >4°F apart on 5 occasions (4.28°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
HTC Big 9 East Branch Little North Fork Big River	1993	• Consecutive data points >4°F apart on 1 occasion (5.11°F max, 72 minute interval)	Use data. Logger appears to have remained submerged.
	1994	• Consecutive data points >4°F apart on 20 occasions (5.22°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 1 occasion (4.14°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
HTC Big 10 Upper Little North Fork Big River	1994	• Consecutive data points >4°F apart on 9 occasions (4.86°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 23 occasions (5.04°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	1996	• Data collection began June 25	Use data. Based on other sites that year, it is likely that peak temperatures were recorded.
	2000	• Consecutive data points >4°F apart on 6 occasions (5.79°F max, 144 minute interval)	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 1 occasion (4.19°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
HTC Big 11 Big River at Fritz Plot	1998	• Consecutive data points >4°F apart on 17 occasions (5.62°F max, 96 minute interval) • Maximum temperature of 74.79°F	Use data. Logger appears to have remained submerged.
	2000	• Maximum temperature of 73.56°F	Use data. Logger appears to have remained submerged.
HTC Big 12 Laguna Creek	1996	• Data collection began July 10 • Unusual diurnal fluctuations	Use data. Based on other sites that year, it is likely that peak temperatures were recorded.
JSF 544 Thompson Gulch above Little North Fork confluence	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 561 Lower Berry Gulch	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 562 Upper Little North Fork Big River	2001	• Data collection began July 5	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 563 Railroad Gulch below unnamed tributary	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.

TABLE 37: WATER TEMPERATURE DATA QUALITY ISSUES, MIDDLE BIG RIVER SUBBASIN

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
MRC 76-1 Big River Below North Fork confluence	1993	• Maximum temperature of 72.68°F	Use data. Logger appears to have remained submerged.
	1994	• Maximum temperature of 73.40°F • No raw data available	Use data.
	1999	• Maximum temperature of 72.91°F	Use data. Logger appears to have remained submerged.
	2001	• Data collection only occurred for 6 days	Data not used, insufficient record.
MRC 76-20 Lower Beaver Pond Gulch	2001	• Unusual diurnal fluctuations	Use data. Logger appears to respond to temperature changes recorded at other sites during the same time period.
HTC Big 1 Big River at HTC/MRC property line	1993	• Maximum temperature of 73.29°F • Logger stopped recording for 2.92 days	Use data. Logger appears to have remained submerged and no peak temperatures missed.
	1994	• Consecutive data points >4°F apart on 7 occasions (4.50°F max, 144 minute interval) • Maximum temperature of 73.22°F	Use data. Logger appears to have remained submerged.
	1995	• Consecutive data points >4°F apart on 37 occasions (5.20°F max, 144 minute interval) • Maximum temperature of 74.48°F	Use data. Logger appears to have remained submerged.
	1996	• Consecutive data points >4°F apart on 81 occasions (7.38°F max, 144 minute interval) • Maximum temperature of 74.48°F • Logger stopped recording for 1.1 days on 3 occasions.	Use data with caveats. Logger appears to have remained submerged, but interruptions in recording period may have occurred during times of peak temperatures.
	1998	• Consecutive data points >4°F apart on 41 occasions (4.93°F max, 96 minute interval) • Maximum temperature of 75.36°F	Use data. Logger appears to have remained submerged.
	2000	• Consecutive data points >4°F apart on 66 occasions (7.29°F max, 144 minute interval) • Maximum temperature of 76.30°F	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 29 occasions (5.83°F max, 120 minute interval) • Maximum temperature of 74.43°F	Use data. Logger appears to have remained submerged.
HTC Big 3 Hatch Gulch	1993	• Logger stopped recording for 2.97 days.	Use data. Interruption does not appear to have occurred during times of peak temperature.
HTC Big 4 Lower Two Log Creek	1993	• Logger stopped recording for 2.98 days.	Use data. Interruption does not appear to have occurred during times of peak temperature.
	2000	• Data collected from 6/7 to 7/20.	Data not used. Collection ended before MWATs occurred at other stations.
HTC Big 7 Middle Big River	1993	• Consecutive data points >4°F apart on 2 occasions (4.16°F max, 72 minute interval) • Data collected from 9/2 to 11/5	Data not used. Collection began after MWATs recorded at other stations.
HTC Big 13 Big River at Kidwell Gulch	1998	• Consecutive data points >4°F apart on 70 occasions (6.59°F max, 96 minute interval) • Maximum temperature of 76.78°F	Use data. Logger appears to have remained submerged.
	2000	• Consecutive data points >4°F apart on 87 occasions (6.35°F max, 96 minute interval) • Maximum temperature of 76.17°F	Use data. Logger appears to have remained submerged.

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
	2001	• Consecutive data points >4°F apart on 90 occasions (8.82°F max, 120 minute interval) • Maximum temperature of 74.73°F	Use data. Logger appears to have remained submerged.

TABLE 38: WATER TEMPERATURE DATA QUALITY ISSUES, UPPER BIG RIVER SUBBASIN

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
FSP 5219 Lower Martin Creek	1997	• Consecutive data points >4°F apart on 86 occasions (5.58°F max, 120 minute interval) • Maximum temperature of 73.32°F	Use data. Logger appears to have remained submerged.
	1998	• Consecutive data points >4°F apart on 54 occasions (5.58°F max, 120 minute interval) • Maximum temperature of 72.32°F	Use data. Logger appears to have remained submerged.
FSP 5235 Martin Creek above unnamed tributary	1997	• Consecutive data points >4°F apart on 76 occasions (10.26°F max, 120 minute interval) • Maximum temperature of 72.32°F	Use data. Logger appears to have remained submerged.
	1998	• Period of record is 6/4 to 6/20	Data not used. Collection began after MWATs recorded at other stations.
FSP 5240 Unnamed tributary to Martin Creek	1997	• Consecutive data points >4°F apart on 53 occasions (9.54°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
	1998	• Consecutive data points >4°F apart on 175 occasions (12.65°F max, 120 minute interval) • Maximum temperature of 75.06°F	Use data. Logger appears to have remained submerged.
MRC 74-1 Big River at Wildhorse Opening	1992	• Period of record begins on 7/1 • Maximum temperature of 74.30°F • No raw data available	Use data. Logger appears to have remained submerged and it is likely that peak temperatures were recorded.
	1993	• Period of record ends on 7/18 • Maximum temperature of 72.50°F • No raw data available	Data not used. Collection began after MWATs recorded at other stations.
	1994	• Period of record begins on 7/27 • Maximum temperature of 70.70°F • No raw data available	Use data. Logger appears to have remained submerged and based on other sites that year, it is likely that peak temperatures were recorded.
	2000	• Consecutive data points >4°F apart on 24 occasions (4.97°F max, 120 minute interval) • Maximum temperature of 73.20°F	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 83 occasions (5.80°F max, 120 minute interval) • Maximum temperature of 74.88°F	Use data. Logger appears to have remained submerged.
MRC 74-2 Lower Russell Brook	1990	• Period of record begins on 6/29	Use data. Logger appears to have remained submerged and it is likely that peak temperatures were recorded.
	1995	• Period of record begins on 7/6 • No raw data available	Use data. Logger appears to have remained submerged and based on other sites that year, it is likely that peak temperatures were recorded.
MRC 74-3 Big River at Pig Pen Gulch	1991	• Consecutive data points >4°F apart on 2 occasions (4.16°F max, 72 minute interval) • Period of record begins on 7/6 • Maximum temperature of 70.52°F • Collection interval varies	Use data. Logger appears to have remained submerged and it is likely that peak temperatures were recorded. While varying time interval may indicate a problem with the internal clock, based on other sites (MRC 79-4) the data logger appears to have accurately recorded stream temperatures.
	1993	• Maximum temperature of 72.68°F	Use data. Logger appears to have remained submerged.
	1999	• Maximum temperature of 71.71°F	Use data. Logger appears to have remained submerged.

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
	2001	• Consecutive data points >4°F apart on 67 occasions (5.49°F max, 120 minute interval) • Maximum temperature of 71.76°F	Use data. Logger appears to have remained submerged.
MRC 74-20 Lower Johnston Gulch	2001	• Unusual diurnal fluctuations	Use data. Although record is abnormal, it appears to be responding to temperature changes, as evidenced by nearby sites.
MRC 74-21 Lower Wildhorse Gulch	2001	• Unusual diurnal fluctuations	Use data. Although record is abnormal, it appears to be responding to temperature changes, as evidenced by nearby sites.

TABLE 39: WATER TEMPERATURE DATA QUALITY ISSUES, NORTH FORK BIG RIVER SUBBASIN

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
JSF 527 Upper North Fork Big River	1996	• Consecutive data points >4°F apart on 2 occasions (4.37°F max, 96 minute interval) • Maximum temperature of 73.81°F	Use data. Logger appears to have remained submerged.
JSF 528 North Fork Big River above James Creek	1996	• Consecutive data points >4°F apart on 5 occasions (4.36°F max, 96 minute interval) • Maximum temperature of 71.11°F	Use data. Logger appears to have remained submerged.
	1997	• Consecutive data points >4°F apart on 16 occasions (4.63°F max, 96 minute interval) • Maximum temperature of 70.50°F	Use data. Logger appears to have remained submerged.
JSF 529 North Fork Big River below James Creek	1996	• Consecutive data points >4°F apart on 14 occasions (4.63°F max, 96 minute interval) • Maximum temperature of 71.11°F	Use data. Logger appears to have remained submerged.
JSF 530 North Fork of the Big River above Chamberlain Creek	1996	• Maximum temperature of 70.81°F	Use data. Logger appears to have remained submerged.
JSF 532 North Fork Big River @ JSF boundary	1994	• Period of record begins on 7/7	Use data. Based on other sites, it is likely that peak temperatures were recorded.
JSF 533 North Fork James Creek	1994	• Period of record begins on 7/7	Use data. Based on other sites, it is likely that peak temperatures were recorded.
JSF 538 Chamberlain Creek below West Chamberlain Creek	1996	• Period of record begins on 6/11 and ends on 6/27	Data not used. Collection completed before MWATs recorded at other stations.
JSF 539 Chamberlain Creek	1997	• Consecutive data points >4°F apart on 1 occasion (4.36°F max, 96 minute interval)	Use data. Logger appears to have remained submerged.
JSF 558 Chamberlain Creek below Arvola Gulch	1998	• Consecutive data points >4°F apart on 88 occasions (6.82°F max, 96 minute interval)	Use data. Logger appears to have remained submerged.
JSF 564 Lower Gulch 16	2001	• Data collection began July 5	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 565 West Chamberlain Creek above Gulch 16	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 566 West Chamberlain Creek above Chamberlain Creek	2001	• Data collection began July 6	Data not used. Based on other sites that year, it is likely that the peak temperatures were not recorded.
JSF 567 Middle James Creek	1994	• Period of record begins on 7/7	Use data. Based on other sites, it is likely that peak temperatures were recorded.
MRC 75-1 Middle East Branch of the North Fork of the Big River	1991	• Period of record begins on 7/5 • Maximum temperature of 70.52°F	Use data. Logger appears to have remained submerged and it is likely that peak temperatures were recorded.
	1993	• Maximum temperature of 72.32°F	Use data. Logger appears to have remained submerged.
	1997	• Consecutive data points >4°F apart on 39 occasions (5.78°F max, 120 minute interval) • Maximum temperature of 70.50°F	Use data. Logger appears to have remained submerged.

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
MRC 75-3 Lower East Branch of the North Fork of the Big River	1997	• Consecutive data points >4°F apart on 6 occasions (4.50°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 32 occasions (6.21°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
MRC 75-20 Lower Quail Gulch	2001	• Period of record ends on 8/6 • Unusual diurnal fluctuations	Data not used. Pending more years of data, there is insufficient evidence that logger was responding to temperature changes.
MRC 75-22 Lower Frykman Gulch	2001	• Unusual diurnal fluctuations	Use data. Logger appears to have responded to temperature changes recorded at other sites.
MRC 75-23 Lower Steam Donkey Gulch	2001	• Unusual diurnal fluctuations	Use data. Logger appears to have responded to temperature changes recorded at other sites.
MRC 75-4 Lower North Fork of the Big River	1992	• Period of record begins on 7/1 • No raw data available	Use data. Based on shape of summary curve and start date, it is likely that peak temperatures were recorded.
FSP 5213 Middle East Branch of the North Fork of the Big River	1997	• Consecutive data points >4°F apart on 24 occasions (4.63°F max, 120 minute interval) • Period of record begins on 7/10	Use data. Logger appears to have remained submerged and based on other sites, it is likely that peak temperatures were recorded.
	1998	• Consecutive data points >4°F apart on 1 occasions (4.14°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
FSP 5220 Upper North Fork of the Big River	1997	• Period of record begins on 7/10	Use data. Based on other sites, it is likely that peak temperatures were recorded.
	1998	• Consecutive data points >4°F apart on 85 occasions (5.58°F max, 120 minute interval) • Maximum temperature of 71.06°F	Use data. Logger appears to have remained submerged and based on other sites, it is likely that peak temperatures were recorded.
FSP 5234 Upper East Branch of the North Fork of the Big River	1997	• Period of record begins on 6/26	Use data. Based on other sites, it is likely that peak temperatures were recorded.
	1998	• Logger stopped recording for approximately 22 days.	Use data with caveats. Based on other sites, it is likely that peak temperatures were recorded.
FSP 5238 Upper North Fork of the Big River	1997	• Period of record begins on 7/10	Use data. Based on other sites, it is likely that peak temperatures were recorded.
	1998	• Consecutive data points >4°F apart on 38 occasions (4.81°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.

TABLE 40: WATER TEMPERATURE DATA QUALITY ISSUES, SOUTH FORK BIG RIVER SUBBASIN

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
JSF 552 Montgomery Creek	1998	• Period of record begins on 7/17	Use data. Logger appears to have remained submerged and based on other sites, it is likely that peak temperatures were recorded.
MRC 79-1 South Fork Big River above the Big River	1996	• Consecutive data points >4°F apart on 11 occasions (4.35°F max, 120 minute interval) • Maximum temperature of 74.43°F	Use data. Logger appears to have remained submerged.
	1997	• Consecutive data points >4°F apart on 21 occasions (5.33°F max, 120 minute interval) • Maximum temperature of 73.42°F	Use data. Logger appears to have remained submerged.
	1999	• Maximum temperature of 73.09°F	Use data. Logger appears to have remained submerged.
	2000	• Consecutive data points >4°F apart on 8 occasions (4.32°F max, 120 minute interval) • Maximum temperature of 73.83°F	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 38 occasions (5.40°F max, 120 minute interval) • Maximum temperature of 72.54°F	Use data. Logger appears to have remained submerged.
MRC 79-2 Lower Ramon Creek	1996	• Consecutive data points >4°F apart on 75 occasions (7.18°F max, 120 minute interval) • Maximum temperature of 72.61°F	Use data. Logger appears to have remained submerged.
	1997	• Consecutive data points >4°F apart on 81 occasions (5.81°F max, 144 minute interval) • Maximum temperature of 71.08°F	Use data. Logger appears to have remained submerged.
	1999	• Maximum temperature of 71.62°F	Use data. Logger appears to have remained submerged.
MRC 79-4 Lower Daugherty Creek	1990	• Maximum temperature of 71.42°F • Period of record begins on 6/28	Use data. Based on shape of summary curve and start date, it is likely that peak temperatures were recorded.
	1991	• Consecutive data points >4°F apart on 12 occasions (4.50°F max, 96 minute interval) • Maximum temperature of 73.04°F • Period of record begins on 7/6	Use data. Based on shape of summary curve and start date, it is likely that peak temperatures were recorded.
	1997	• Consecutive data points >4°F apart on 45 occasions (5.51°F max, 120 minute interval) • Maximum temperature of 71.40°F	Use data. Logger appears to have remained submerged.
	1999	• Consecutive data points >4°F apart on 48 occasions (5.50°F max, 120 minute interval) • Maximum temperature of 70.83°F	Use data. Logger appears to have remained submerged.
	2000	• Consecutive data points >4°F apart on 1 occasion (4.25°F max, 120 minute interval) • Maximum temperature of 71.19°F	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 45 occasions (5.80°F max, 120 minute interval) • Maximum temperature of 70.66°F	Use data. Logger appears to have remained submerged.

SITE / LOCATION	YEAR	COMMENTS	DATA USABILITY
MRC 79-5 Upper Daugherty Creek above Gates Creek	1997	• Consecutive data points >4°F apart on 13 occasions (5.15 °F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
MRC 79-9 Lower Gates Creek	1997	• Consecutive data points >4°F apart on 16 occasions (4.61°F max, 120 minute interval) • Maximum temperature of 70.83°F	Use data. Logger appears to have remained submerged.
	2001	• Consecutive data points >4°F apart on 2 occasions (4.57°F max, 120 minute interval) • Irregular peaking	Use data. Logger appears to have remained submerged and responded to temperature changes recorded at other sites.
MRC 79-20 Lower No Name Gulch	2001	• Consecutive data points >4°F apart on 2 occasions (4.18°F max, 120 minute interval)	Use data. Logger appears to have remained submerged.
MRC 79-21 Lower Goddard Gulch	2001	• Irregular peaking	Use data. Logger appears to have responded to temperature changes recorded at other sites.
MRC 79-22 Lower Donkey House Gulch	2001	• Irregular peaking	Use data. Logger appears to have responded to temperature changes recorded at other sites.
MWA 154 Lower Daugherty Creek	1999	• Maximum temperature of 70.21°F • Raw data w/o time intervals	Use data. Logger appears to have remained submerged.
	2000	• Maximum temperature of 70.50°F	Use data. Logger appears to have remained submerged.
MWA 155 South Fork Big River below Daugherty Creek	1999	• Raw data w/o time intervals	Use data. Logger appears to have remained submerged.
	2000	• Maximum temperature of 71.11°F	Use data. Logger appears to have remained submerged.

TABLE 41: SELECT PESTICIDE & HERBICIDE USE IN MENDOCINO COUNTY, 2000

SELECTED COMMODITY CATAGORIES[1]	POUNDS APPLIED[3]	AGRICULTURAL APPLICATIONS[2, 4]	AMOUNT TREATED[4]	UNIT TYPE[5]
FOREST, TIMBERLAND				
ALKYL POLYOXY ALKYLENE ETHER	9.75	1	20.00	A
2,4-D, DIMETHYLAMINE SALT	0.57	1	0.06	A
FREE FATTY ACIDS AND OR AMINE SALTS	1.95	1	20.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	92.20	6	1,468.00	A
IMAZAPYR, ISOPROPYLAMINE SALT	6,690.56	189	9,713.40	A
UNDECYL POLYOXYETHYLENE (5 MOLES ETHYLENE OXIDE)	109.35	6	144.00	A
OLEIC ACID, METHYL ESTER	1,190.10	16	1,821.00	A
PETROLEUM HYDROCARBONS	4.62	1	20.00	A
POLYOXYETHYLENE MIXED FATTY ACID ESTER	0.83	1	20.00	A
SULFOMETURON METHYL	24.96	13	164.00	A
TALL OIL ACIDS	109.35	6	144.00	A
TRICLOPYR, BUTOXYETHYL ESTER	1,378.22	19	921.00	A
Commodity Total (Percentage of County Total)	**9,612.45 (0.7%)**	**246**		
PASTURELAND				
ALKYLARYL POLYOXYETHYLENE GLYCOL PHOSPHATE ESTER	0.80	1	4.00	A
BENZOIC ACID	0.08	2	8.00	A
2,4-D, DIMETHYLAMINE SALT	31.65	3	23.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	1.24	2	3.50	A
KEROSENE	3.32	2	8.00	A
MINERAL OIL	1.24	1	4.00	A
POLYOXYETHYLENE SORBITAL, MIXED ETHYL ESTER	6.05	1	4.00	A
SIMAZINE	2.79	1	1.50	A
SOYBEAN FATTY ACIDS, DIMETHYLAMINE SALT	0.10	2	8.00	A
Commodity Total (Percentage of County Total)	**47.26 (0.0%)**	**10**		
RANGELAND				
CLOPYRALID, MONOETHANOLAMINE SALT	158.35	4	442.00	A
2,4-D, BUTOXYETHANOL ESTER	8.24	1	5.00	A
2,4-D, DIMETHYLAMINE SALT	678.63	3	510.00	A
4(2,4-DB), DIMETHYLAMINE SALT	59.04	1	100.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	9.66	12	14.53	A
OLEIC ACID, METHYL ESTER	18.95	1	37.00	A
SIMAZINE	3.60	1	1.25	A
TRICLOPYR, TRIETHYLAMINE SALT	0.00	1	10.00	A
Commodity Total (Percentage of County Total)	**936.46 (0.1%)**	**24**		
REGULATORY PEST CONTROL				
CLOPYRALID, MONOETHANOLAMINE SALT	0.06		2.00	A
	0.00			
TOTAL POUNDS OF THIS CHEMICAL	0.06			
GLYPHOSATE, ISOPROPYLAMINE SALT	0.09			
Commodity Total (Percentage of County Total)	**0.16 (0.0%)**			
RIGHTS OF WAY				
BORAX	8,742.80			
CLOPYRALID, MONOETHANOLAMINE SALT	2.16			
COPPER NAPHTHENATE	4,262.07			
2,4-D, DIMETHYLAMINE SALT	2.26			
DIURON	267.73			
GLYPHOSATE, ISOPROPYLAMINE SALT	451.76			
	319.75	3	610.00	A
TOTAL POUNDS OF THIS CHEMICAL	771.50			
HEXAZINONE	0.50			

SELECTED COMMODITY CATAGORIES[1]	POUNDS APPLIED[3]	AGRICULTURAL APPLICATIONS[2, 4]	AMOUNT TREATED[4]	UNIT TYPE[5]
METAM-SODIUM	4,628.30			
NORFLURAZON	7.86			
OLEIC ACID, METHYL ESTER	22.74			
ORYZALIN	10.00			
OXYFLUORFEN	5.13			
PETROLEUM HYDROCARBONS	9.67			
	0.12	1	10.00	A
TOTAL POUNDS OF THIS CHEMICAL	9.80			
POLYOXYETHYLENE MIXED FATTY ACID ESTER	0.02	1	10.00	A
SILICONE-POLYETHER COPOLYMER	4.61			
SIMAZINE	15.01			
SODIUM FLUORIDE	67.50			
SULFOMETURON METHYL	8.25			
TRICLOPYR, BUTOXYETHYL ESTER	3.57	1	300.00	A
Commodity Total (Percentage of County Total)	**18,831.83 (1.3%)**	**5**		
UNCULTIVATED AG				
ALKYL POLYOXY ALKYLENE ETHER	1.62	2	2.00	A
CHLOROPICRIN	101.50	4	54.50	A
FREE FATTY ACIDS AND OR AMINE SALTS	0.32	2	2.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	96.71	12	52.30	A
HALOSULFURON	0.13	1	1.00	A
METHYL BROMIDE	47,344.50	6	146.50	A
ORYZALIN	10.53	1	5.00	A
OXYFLUORFEN	5.91	6	23.00	A
SIMAZINE	18.82	3	6.00	A
Commodity Total (Percentage of County Total)	**47,580.03 (3.4%)**	**31**		
UNCULTIVATED NON-AG				
AMMONIUM PROPIONATE	2.76	3	15.00	A
AMMONIUM SULFATE	0.69	3	15.00	A
CITRIC ACID	1.38	3	15.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	153.32	16	92.48	A
OXYFLUORFEN	27.70	3	58.00	A
P-NONYLPHENYL POLYOXYETHYLENE (4-14 MOLES)DIHYDROGEN				
PHOSPHATE ESTER	0.69	3	15.00	A
POLYMERIZED ACRYLIC ACID	1.38	3	15.00	A
SETHOXYDIM	1.76	2	5.50	A
SIMAZINE	22.74	6	6.40	A
	4.50	1	1.23	S
TOTAL POUNDS OF THIS CHEMICAL	27.24			
Commodity Total (Percentage of County Total)	**216.92 (0.0%)**	**31**		
MENDOCINO COUNTY TOTAL	**1,414,525.29**	**9,002**		

[1] The listed commodities are only a small subset of the commodities listed by DPR. Those listed here were thought to be the most likely activities in the Big River watershed.

[2] Number of applications of pesticide product made to "production agriculture". All other uses, such as "Rights of Way" are not counted.

[3] Number of pounds of an active ingredient only. "Inert" ingredients are not included in this summary.

[4] The summary information in this annual report cannot be used to determine the total number of acres or applications of a crop to which pesticides/herbicides were applied during the year because pesticides/herbicides with multiple active ingredients are counted separately. For example, if there were two active ingredients in a single pesticide/herbicide applied to 20 acres, both active ingredients would be counted as applied to 20 acres each for a total of 40 acres (instead of the 20 acres actually treated). A similar problem occurs when the same field is treated more than once in the year with the same active ingredient.

[5] A = Acreage, S = Square feet

TABLE 42: WATER QUALITY DATA SUMMARY, BIG RIVER ABOVE LITTLE NORTH FORK (STORET)

SITE NAME(S):	RWQCB 1 and USGS (See Figure 35 on page 147)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[11]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
ALKALINITY, TOTAL (MG/L AS CACO3)	103	103	30.0	2/13/75	103.0	11/14/62	76.8	80.0	100.0
ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	91	91	27.0	2/8/85	104.0	12/8/59	77.0	80.0	101.0
ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	1	1	65.0	1/1/01	65.0	1/1/01	NA	NA	NA
ARSENIC, DISSOLVED (UG/L AS AS)	12	1	0	5/4/59	10.0	9/13/63	NA	NA	NA
BICARBONATE ION (MG/L AS HCO3)	65	65	39.0	1/7/65	126.0	11/11/65	97.9	100.0	122.6
BOD, 5 DAY, 20 DEG C MG/L	5	5	0.10	4/9/87	0.8	4/17/85	0.58	0.70	0.80
BORON, DISSOLVED (UG/L AS B)	198	174	0	3/3/59	1000.0	7/11/60	225.8	200.0	400.0
CADMIUM, TOTAL (UG/L AS CD)	2	0	0	5/14/75	0	5/14/75	NA	NA	NA
CALCIUM, DISSOLVED (MG/L AS CA)	66	66	6.7	2/13/75	30.0	10/5/59	18.2	19.0	22.0
CARBON DIOXIDE (MG/L AS CO2)	1	1	6.1	8/16/77	6.1	8/16/77	NA	NA	NA
CARBONATE ION (MG/L AS CO3)	65	5	0	10/10/60	3.0	7/15/65	0.12	0	0
CHC(AS DDT),NONE FOUND,WHOLE WATER SAMPLE (UG/L)	1	0	0	6/4/86	0	6/4/86	NA	NA	NA
CHLOR. PHENOXY ACID GP,NONE FOUND,WHOLE WTR,UG/L	1	0	0	6/4/86	0	6/4/86	NA	NA	NA
CHLORIDE, DISSOLVED IN WATER MG/L	136	136	1.0	9/9/68	19.0	6/12/63	7.1	7.0	8.9
CHLORIDE,TOTAL IN WATER MG/L	63	63	4.5	1/7/65	19.0	6/12/63	7.3	7.0	9.3
CHROMIUM, DISSOLVED (UG/L AS CR)	6	0	0	5/4/59	0	5/4/59	NA	NA	NA
COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	3	3	240	6/4/86	900.0	4/9/87	546.7	500.0	820.0
COPPER, DISSOLVED (UG/L AS CU)	7	2	0	5/4/59	10.0	6/1/59	NA	NA	NA
COPPER, TOTAL (UG/L AS CU)	2	0	0	5/14/75	0	5/14/75	NA	NA	NA
FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	3	3	2.0	4/9/87	30.0	6/4/86	18.3	23.0	28.6
FLOW, STREAM, INSTANTANEOUS CFS	201	201	0.72	8/16/77	3000.0	2/8/85	168.3	35.0	500.0
FLUORIDE, DISSOLVED (MG/L AS F)	29	17	0	3/3/59	0.20	1/6/59	0.08	0.10	0.20
HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	45	45	28.3	2/13/75	96.2	11/2/59	68.1	73.8	88.7
HARDNESS, NON-CARBONATE (MG/L AS	65	2	0	10/10/60	5.0	11/11/64	NA	NA	NA

[11] Date on which the minimum value occurred is the first date that the value occurred. For example, if there were several "non-detects", represented here as a zero, the date given is the first instance of non-detect (chronologically).

SITE NAME(S):	RWQCB 1 and USGS (See Figure 35 on page 147)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[11]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
CACO3)									
HARDNESS, TOTAL (MG/L AS CACO3)	199	199	0.90	11/9/61	520.0	1/13/66	73.1	75.0	88.2
IRON, DISSOLVED (UG/L AS FE)	8	4	0	9/7/59	130.0	5/4/59	36.3	5.0	95.0
IRON, TOTAL (UG/L AS FE)	3	3	50.0	5/14/75	100.0	9/5/61	66.7	50.0	90.0
LEAD, DISSOLVED (UG/L AS PB)	7	0	0	5/4/59	0	5/4/59	NA	NA	NA
LEAD, TOTAL (UG/L AS PB)	2	0	0	5/14/75	0	5/14/75	NA	NA	NA
MAGNESIUM, DISSOLVED (MG/L AS MG)	66	66	2.4	3/8/78	8.8	11/2/59	6.3	6.6	8.3
MANGANESE, DISSOLVED (UG/L AS MN)	7	0	0	5/4/59	0	5/4/59	NA	NA	NA
MANGANESE, TOTAL (UG/L AS MN)	2	2	10.0	5/14/75	20.0	5/5/76	NA	NA	NA
METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	5	1	0	9/13/63	0.10	9/3/64	NA	NA	NA
NITRATE NITROGEN, DISSOLVED (MG/L AS N)	2	1	0	5/14/75	0.06	5/5/76	NA	NA	NA
NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	44	34	0	3/3/59	1.7	2/4/87	0.35	0.20	0.84
NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	4	4	0.01	6/4/86	0.07	2/5/86	0.03	0.02	0.06
NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	4	1	0	5/14/75	0.20	2/5/86	NA	NA	NA
ORG PHOS COMPNONE FOUNDWHOLE WATER SMPL (UG/L)	2	0	0	5/5/76	0	5/5/76	NA	NA	NA
OXYGEN, DISSOLVED MG/L	207	207	4.5	10/13/82	13.0	1/5/67	10.1	10.1	11.7
OXYGEN, DISSOLVED, PERCENT OF SATURATION %	206	206	43.4	10/13/82	118.1	8/7/63	96.8	96.8	105.5
PH (STANDARD UNITS)	269	269	0.76	12/5/60	8.4	6/4/65	7.4	7.4	7.9
PH, LAB, STANDARD UNITS SU	135	135	7.0	1/6/59	8.4	6/4/65	7.8	7.8	8.2
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	19	17	0	5/13/64	0.07	9/5/61	0.02	0.02	0.03
PHOSPHORUS, TOTAL (MG/L AS P)	4	4	0.03	5/5/76	0.07	2/5/86	0.04	0.04	0.06
POTASSIUM, DISSOLVED (MG/L AS K)	56	56	0.10	9/11/69	2.8	12/8/59	1.3	1.4	1.7
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	25	25	55.0	2/13/75	180.0	5/16/66	112.0	119.0	134.6
S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE WTR-FPD UG/L	2	0	0	5/14/75	0	5/14/75	NA	NA	NA
SILICA, DISSOLVED (MG/L AS SI02)	38	38	11.0	8/16/77	24.0	6/1/59	17.4	17.0	19.3
SODIUM ADSORPTION RATIO	65	65	0.10	1/13/66	5.5	11/9/61	0.61	0.50	0.60
SODIUM, DISSOLVED (MG/L AS NA)	201	201	4.5	3/7/60	17.0	6/12/63	10.4	11.0	13.0
SODIUM, PERCENT	14	14	21.0	9/13/63	28.0	8/16/77	23.6	24.0	25.0

SITE NAME(S):	RWQCB 1 and USGS (See Figure 35 on page 147)								
PARAMETER[1]	**COUNT ALL**	**COUNT DETECTS**	**MIN.**	**DATE MIN[11]**	**MAX.**	**DATE MAX**	**AVG.**	**50TH PERCENTILE**	**90TH PERCENTILE**
SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	9	9	107.0	5/7/63	136.0	9/13/63	123.8	126.0	133.6
SOLIDS, DISSOLVED-TONS PER DAY	1	1	0.24	8/16/77	0.24	8/16/77	NA	NA	NA
SOLIDS, DISSOLVED-TONS PER ACRE-FT	12	12	0.15	5/11/61	0.24	5/16/66	0.18	0.18	0.19
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	202	202	76.0	2/13/75	292.0	6/12/63	182.6	192.0	225.0
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	95	95	79.0	2/13/75	581.0	8/30/77	184.6	196.0	222.0
STAGE, STREAM (FEET)	44	44	0.02	9/3/64	11.3	1/23/69	6.6	7.0	8.7
SULFATE, DISSOLVED (MG/L AS SO4)	37	37	0.8	2/13/75	15.0	1/6/59	6.4	6.0	8.9
SULFATE, TOTAL (MG/L AS SO4)	13	13	4.6	8/16/77	8.0	5/9/62	6.7	7.0	8.0
TEMPERATURE, WATER (DEGREES CENTIGRADE)	208	208	3.9	1/6/77	24.4	8/3/88	13.9	13.7	20.0
TEMPERATURE, WATER (DEGREES FAHRENHEIT)	25	25	39.0	1/6/77	76.0	8/3/88	55.8	56.0	66.8
TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	96	94	0	9/16/70	340.0	1/23/69	20.7	3.0	40.0
TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	87	76	0	5/4/72	600.0	2/13/75	33.4	1.0	51.6
UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE UG/L	1	1	0.02	5/14/75	0.02	5/14/75	NA	NA	NA
ZINC, DISSOLVED (UG/L AS ZN)	7	3	0	5/4/59	70.0	6/1/59	22.9	0	64.0
ZINC, TOTAL (UG/L AS ZN)	2	0	0	5/14/75	0	5/14/75	NA	NA	NA

Source: US EPA StoRet

[1] Values shown as “0” were non-detectable at their respective reporting limits.

TABLE 43: WATER QUALITY DATA SUMMARY, VISTA WATER COMPANY CISTERN WELL (DHS)

SITE NAME(S):	VISTA WATER COMPANY (See Figure 35 on page 147)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[12]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
1,1,1,2-TETRACHLORETHANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,1-DICHLOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,1-DICHLOROETHYLENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,1-DICHLOROPROPENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,2-DICHLOROBENZENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,2-DICHLOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1,2-DICHLOROPROPANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,3-DICHLOROBENZENE ()	1	0	0	NA	0	NA	NA	NA	NA
1,3-DICHLOROPROPANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,3-DICHLOROPROPENE (TOTAL) (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
1,4-DICHLOROBENZENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
1-PHENYLPROPANE (PROPYLBENZENE) (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
2,2-DICHLOROPROPANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
2,4,5-TP (SILVEX) (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
2,4-D (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
2-CHLOROETHYLVINYL ETHER ()	1	0	0	NA	0	NA	NA	NA	NA
2-CHLOROTOLUENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
4-CHLOROTOLUENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
ALUMINUM (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
ANTIMONY (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
ARSENIC (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
ASBESTOS (MFL)	0	0	0	NA	0	NA	NA	NA	NA
ATRAZINE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
BARIUM (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
BENZENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
BERYLLIUM (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
BICARBONATE (mg/l)	2	2	9	1/26/93	17	6/8/94	NA	NA	NA
BIS (2-CHLOROETHYL) ETHER ()	1	0	0	NA	0	NA	NA	NA	NA
BROMACIL (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
BROMOBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
BROMOCHLOROMETHANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
BROMODICHLORMETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA

[12] Date on which the minimum value occurred is the first date that the value occurred. For example, if there were several "non-detects", represented here as a zero, the date given is the first instance of non-detect (chronologically).

SITE NAME(S):	VISTA WATER COMPANY (See Figure 35 on page 147)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[12]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
BROMOFORM (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
BROMOMETHANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
BUTACHLOR (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
CADMIUM (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
CALCIUM (mg/l)	2	2	2.4	6/8/94	2.9	1/26/93	NA	NA	NA
CAPTAN ()	1	0	0	NA	0	NA	NA	NA	NA
CARBON TETRACHLORIDE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
CARBONATE (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
CHLORDANE (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
CHLORIDE (mg/l)	2	2	29	6/8/94	32	1/26/93	NA	NA	NA
CHLOROETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
CHLOROFORM (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
CHLOROMETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
CHROMIUM (TOTAL) (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
CIS-1,2-DICHLOROETHYLENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
COLOR (UNITS)	2	1	0	NA	100	1/26/93	NA	NA	NA
COPPER (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
DALAPON (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
DIAZINON ()	0	0	0	NA	0	NA	NA	NA	NA
DIMETHOATE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
DIBROMOCHLOROMETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
DIBROMOMETHANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
DICHLOROMETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
DICOFOL ()	1	0	0	NA	0	NA	NA	NA	NA
ENDOSULFAN I ()	1	0	0	NA	0	NA	NA	NA	NA
ENDOSULFAN II ()	1	0	0	NA	0	NA	NA	NA	NA
ENDOSULFAN SULFATE ()	1	0	0	NA	0	NA	NA	NA	NA
ENDRIN (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
ETHYL BENZENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
FLUORIDE (TEMPERATURE DEPENDENT) (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
FOAMING AGENTS (MBAS) (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
GUTHION ()	1	0	0	NA	0	NA	NA	NA	NA
HEPTACHLOR (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
HEPTACHLOR EPOXIDE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
HEXACHLOROBUTADIENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
IRON (ug/l)	2	1	0	NA	120	1/26/93	NA	NA	NA
ISOPROPYLBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
LAB TURBIDITY (NTU)	2	2	0.8	1/26/93	6	6/8/94	NA	NA	NA
LANGELIER INDEX @ 60 C ()	0	0	0	NA	0	NA	NA	NA	NA
LANGELIER INDEX @ SOURCE TEMP. ()	0	0	0	NA	0	NA	NA	NA	NA
LEAD ()	2	0	0	NA	0	NA	NA	NA	NA
LINDANE (GAMMA-BHC) (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
M,P-XYLENE ()	0	0	0	NA	0	NA	NA	NA	NA
MAGNESIUM (mg/l)	2	2	3	6/8/94	3.1	1/26/93	NA	NA	NA
MANGANESE (ug/l)	2	0	0	NA	0	NA	NA	NA	NA

SITE NAME(S):	VISTA WATER COMPANY (See Figure 35 on page 147)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[12]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
MERCURY (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
METHOD 601 NEGATIVE - NO 602 REPO ()	1	0	0	NA	0	NA	NA	NA	NA
METHOXYCHLOR (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
METHYL ETHYL KETONE ()	1	0	0	NA	0	NA	NA	NA	NA
METHYL ISOBUTYL KETONE ()	1	0	0	NA	0	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER (MTBE) (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
METOLACHLOR (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
METRIBUZIN (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
MOLINATE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
MONOCHLOROBENZENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
NAPHTHALENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
NATURAL URANIUM (PC/l)	0	0	0	NA	0	NA	NA	NA	NA
NICKEL (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
NITRATE (AS NO3) (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
NITRITE (N) (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
N-BUTYLBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
O-XYLENE ()	0	0	0	NA	0	NA	NA	NA	NA
ODOR THRESHOLD @ 60 C (units)	2	0	0	NA	0	NA	NA	NA	NA
P-ISOPROPYLTOLUENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
PH (LABORATORY) ()	2	2	6.3	1/26/93	6.3	1/26/93	NA	NA	NA
POTASSIUM ()	2	2	0.53	6/8/94	0.61	1/26/93	NA	NA	NA
PROMETRYN (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
PROPACHLOR (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
SEC-BUTYLBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
SELENIUM (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
SILVER (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
SIMAZINE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
SODIUM (mg/l)	2	2	17	1/26/93	17	1/26/93	NA	NA	NA
SOURCE TEMPERATURE C ()	0	0	0	NA	0	NA	NA	NA	NA
SPECIFIC CONDUCTANCE (uMhos)	2	2	115	1/26/93	117	6/8/94	NA	NA	NA
STYRENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
SULFATE (mg/l)	2	1	0	NA	3.7	6/8/94	NA	NA	NA
TERT-BUTYLBENZENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
TETRACHLOROETHYLENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
THALLIUM (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
THIOBENCARB (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
TOLUENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
TOTAL ALKALINITY (AS CACO3) (mg/l)	2	2	7	1/26/93	14	6/8/94	NA	NA	NA
TOTAL ALPHA (PC/L)	1	1	0.55	1/26/93	0.55	1/26/93	NA	NA	NA
TOTAL ALPHA COUNTING ERROR ()	1	1	1.86	1/26/93	1.86	1/26/93	NA	NA	NA
TOTAL FILTERABLE RESIDUE (mg/l)	2	2	58	1/26/93	59	6/8/94	NA	NA	NA
TOTAL HARDNESS (AS CACO3) (mg/l)	2	2	18	6/8/94	20	1/26/93	NA	NA	NA
TOTAL TRIHALOMETHANES ()	1	0	0	NA	0	NA	NA	NA	NA
TOXAPHENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHYLENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA

SITE NAME(S):	VISTA WATER COMPANY (See Figure 35 on page 147)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[12]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
TRICHLOROETHYLENE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
VINYL CHLORIDE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
XYLENES (TOTAL) (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
ZINC (ug/l)	2	0	0	NA	0	NA	NA	NA	NA

[1] Values shown as “0” were non-detectable at their respective reporting limits.

TABLE 44: WATER QUALITY DATA SUMMARY, CDF CHAMBERLAIN CREEK CONSERVATION CAMP (DHS)

SITE NAME(S):	CDF CHAMBERLAIN (See Figure 38 on page 150)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[13]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
1,1,1,2-TETRACHLORETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1-DICHLOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1-DICHLOROETHYLENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,1-DICHLOROPROPENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2,3-TRICHLOROBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2-DICHLOROBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2-DICHLOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,2-DICHLOROPROPANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,3,5-TRIMETHYLBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,3-DICHLOROBENZENE ()	3	0	0	NA	0	NA	NA	NA	NA
1,3-DICHLOROPROPANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,3-DICHLOROPROPENE (TOTAL) (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1,4-DICHLOROBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
1-PHENYLPROPANE (PROPYLBENZENE) (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
2,2-DICHLOROPROPANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
2,4,5-TP (SILVEX) (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
2,4-D (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
2-CHLOROETHYLVINYL ETHER ()	3	0	0	NA	0	NA	NA	NA	NA
2-CHLOROTOLUENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
4-CHLOROTOLUENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
ALUMINUM (ug/l)	3	2	0	NA	1300	2/4/97	NA	NA	NA
ANTIMONY (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
ARSENIC (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
ASBESTOS (MFL)	1	0	0	NA	0	NA	NA	NA	NA
ATRAZINE (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
BARIUM (ug/l)	3	1	0	NA	21	2/4/97	NA	NA	NA
BENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
BERYLLIUM (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
BICARBONATE (mg/l)	1	1	65	2/14/96	65	2/14/96	NA	NA	NA
BIS (2-CHLOROETHYL) ETHER ()	3	0	0	NA	0	NA	NA	NA	NA
BROMACIL (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
BROMOBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
BROMOCHLOROMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA

[13] Date on which the minimum value occurred is the first date that the value occurred. For example, if there were several "non-detects", represented here as a zero, the date given is the first instance of non-detect (chronologically).

SITE NAME(S):	CDF CHAMBERLAIN (See Figure 38 on page 150)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[13]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
BROMODICHLORMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
BROMOFORM (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
BROMOMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
BUTACHLOR (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
CADMIUM (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
CALCIUM (mg/l)	1	1	10	2/14/96	10	2/14/96	NA	NA	NA
CAPTAN ()	0	0	0	NA	0	NA	NA	NA	NA
CARBON TETRACHLORIDE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
CARBONATE (mg/l)	1	0	0	NA	0	NA	NA	NA	NA
CHLORDANE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
CHLORIDE (mg/l)	1	1	14	2/14/96	14	2/14/96	NA	NA	NA
CHLOROETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
CHLOROFORM (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
CHLOROMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
CHROMIUM (TOTAL) (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
CIS-1,2-DICHLOROETHYLENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
COLOR (UNITS)	1	0	0	NA	0	NA	NA	NA	NA
COPPER (ug/l)	1	1	190	2/14/96	190	2/14/96	NA	NA	NA
DALAPON (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
DIAZINON ()	1	0	0	NA	0	NA	NA	NA	NA
DIMETHOATE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
DIBROMOCHLOROMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
DIBROMOMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
DICHLORODIFLUOROMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
DICHLOROMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
DICOFOL ()	0	0	0	NA	0	NA	NA	NA	NA
ENDOSULFAN I ()	0	0	0	NA	0	NA	NA	NA	NA
ENDOSULFAN II ()	0	0	0	NA	0	NA	NA	NA	NA
ENDOSULFAN SULFATE ()	0	0	0	NA	0	NA	NA	NA	NA
ENDRIN (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
ETHYL BENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
FLUORIDE (TEMPERATURE DEPENDENT) (mg/l)	2	2	0.12	2/4/97	0.13	2/14/96	NA	NA	NA
FOAMING AGENTS (MBAS) (mg/l)	1	0	0	NA	0	NA	NA	NA	NA
GUTHION ()	0	0	0	NA	0	NA	NA	NA	NA
HEPTACHLOR (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
HEPTACHLOR EPOXIDE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
HEXACHLOROBUTADIENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
IRON (ug/l)	1	1	140	2/14/96	140	2/14/96	NA	NA	NA
ISOPROPYLBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
LAB TURBIDITY (NTU)	1	1	6.6	2/14/96	6.6	2/14/96	NA	NA	NA
LANGELIER INDEX @ 60 C ()	1	1	0.14	2/14/96	0.14	2/14/96	NA	NA	NA
LANGELIER INDEX @ SOURCE TEMP. ()	1	1	0.95	2/14/96	0.95	2/14/96	NA	NA	NA
LEAD ()	3	0	0	NA	0	NA	NA	NA	NA
LINDANE (GAMMA-BHC) (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
M,P-XYLENE ()	3	0	0	NA	0	NA	NA	NA	NA
MAGNESIUM (mg/l)	1	1	3.1	2/14/96	3.1	2/14/96	NA	NA	NA

SITE NAME(S):	CDF CHAMBERLAIN (See Figure 38 on page 150)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[13]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
MANGANESE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
MERCURY (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
METHOD 601 NEGATIVE - NO 602 REPO ()	0	0	0	NA	0	NA	NA	NA	NA
METHOXYCHLOR (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
METHYL ETHYL KETONE ()	3	0	0	NA	0	NA	NA	NA	NA
METHYL ISOBUTYL KETONE ()	3	0	0	NA	0	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER (MTBE) (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
METOLACHLOR (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
METRIBUZIN (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
MOLINATE (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
MONOCHLOROBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
NAPHTHALENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
NATURAL URANIUM (PC/l)	3	0	0	NA	0	NA	NA	NA	NA
NICKEL (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
NITRATE (AS NO3) (mg/l)	5	0	0	NA	0	NA	NA	NA	NA
NITRITE (N) (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
N-BUTYLBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
O-XYLENE ()	3	0	0	NA	0	NA	NA	NA	NA
ODOR THRESHOLD @ 60 C (units)	1	0	0	NA	0	NA	NA	NA	NA
P-ISOPROPYLTOLUENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
PH (LABORATORY) ()	1	1	7.9	2/14/96	7.9	2/14/96	NA	NA	NA
POTASSIUM ()	1	1	1.2	2/14/96	1.2	2/14/96	NA	NA	NA
PROMETRYN (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
PROPACHLOR (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
SEC-BUTYLBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
SELENIUM (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
SILVER (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
SIMAZINE (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
SODIUM (mg/l)	1	1	9.7	2/14/96	9.7	2/14/96	NA	NA	NA
SOURCE TEMPERATURE C ()	1	1	15	2/14/96	15	2/14/96	NA	NA	NA
SPECIFIC CONDUCTANCE (uMhos)	1	1	134	2/14/96	134	2/14/96	NA	NA	NA
STYRENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
SULFATE (mg/l)	1	1	4.1	2/14/96	4.1	2/14/96	NA	NA	NA
TERT-BUTYLBENZENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
TETRACHLOROETHYLENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
THALLIUM (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
THIOBENCARB (ug/l)	1	0	0	NA	0	NA	NA	NA	NA
TOLUENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
TOTAL ALKALINITY (AS CACO3) (mg/l)	1	1	54	2/14/96	54	2/14/96	NA	NA	NA
TOTAL ALPHA (PC/L)	3	1	0	NA	1.39	8/17/93	NA	NA	NA
TOTAL ALPHA COUNTING ERROR ()	3	3	2.04	6/8/93	2.5	8/17/93	2.22	2.42	2.11
TOTAL FILTERABLE RESIDUE (mg/l)	1	1	67	2/14/96	67	2/14/96	NA	NA	NA
TOTAL HARDNESS (AS CACO3) (mg/l)	1	1	39	2/14/96	39	2/14/96	NA	NA	NA
TOTAL TRIHALOMETHANES ()	3	0	0	NA	0	NA	NA	NA	NA
TOXAPHENE (ug/l)	0	0	0	NA	0	NA	NA	NA	NA
TRANS-1,2-DICHLOROETHYLENE	3	0	0	NA	0	NA	NA	NA	NA

SITE NAME(S):	CDF CHAMBERLAIN (See Figure 38 on page 150)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN.	DATE MIN[13]	MAX.	DATE MAX	AVG.	50TH PERCENTILE	90TH PERCENTILE
(ug/l)									
TRICHLOROETHYLENE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
VINYL CHLORIDE (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
XYLENES (TOTAL) (ug/l)	3	0	0	NA	0	NA	NA	NA	NA
ZINC (ug/l)	1	1	88	2/14/96	88	2/14/96	NA	NA	NA

[1] Values shown as “0” were non-detectable at their respective reporting limits.

TABLE 45: WATER QUALITY DATA SUMMARY, SF BIG RIVER BELOW DAUGHERTY CR (SWAMP)

SITE NAME(S)	SFBIGD (See Figure 39 on page 151)								
PARAMETER[1]	COUNT ALL	COUNT DETECTS	MIN	DATE MIN	MAX	DATE MAX	AVG.	90TH PERCENTILE	50TH PERCENTILE
Ammonia as N (mg/l)	2	1	0	06/28/01	0.24	05/09/01	NA	NA	NA
Bicarbonate Alkalinity (mg/l)	2	2	110	05/09/01	130	06/28/01	NA	NA	NA
Boron (ug/l)	2	2	1000	05/09/01	2400	06/28/01	NA	NA	NA
Cadmium (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Calcium (ug/l)	2	2	26000	05/09/01	28000	06/28/01	NA	NA	NA
Carbon Dioxide (free) (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Carbonate Alkalinity (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Chloride (mg/l)	1	1	9.9	06/28/01	9.9	06/28/01	NA	NA	NA
Chlorophyll-a (mg/l)	1	0	0	NA	0	NA	NA	NA	NA
Chromium (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Copper (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Hardness (mg/l)	2	2	100	05/09/01	110	06/28/01	NA	NA	NA
Hydroxide Alkalinity (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Iron (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Lead (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Magnesium (ug/l)	2	2	9400	05/09/01	10000	06/28/01	NA	NA	NA
Mercury (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Nickel (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Nitrate/Nitrite as N (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Orthophosphate as P (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
pH (pH units)	2	2	8.3	06/28/01	8.36	05/09/01	NA	NA	NA
Phosphorus (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Silica (SiO2) (ug/l)	2	2	13000	06/28/01	16000	05/09/01	NA	NA	NA
Sodium (ug/l)	2	2	16000	05/09/01	19000	06/28/01	NA	NA	NA
Specific Conductance (umho/cm)	1	1	300	06/28/01	300	06/28/01	NA	NA	NA
Sulfate as SO4 (mg/l)	1	1	9.7	06/28/01	9.7	06/28/01	NA	NA	NA
TDS (mg/l)	2	2	160	05/09/01	170	06/28/01	NA	NA	NA
Total Alkalinity (mg/l)	2	2	110	05/09/01	130	06/28/01	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Total Organic Carbon (mg/l)	2	2	1.1	05/09/01	2.9	06/28/01	NA	NA	NA
Zinc (ug/l)	2	1	0	06/28/01	21	05/09/01	NA	NA	NA
FIELD MEASUREMENTS									
DO (mg/l)	2	2	9.34	06/28/01	10.82	05/09/01	NA	NA	NA
pH (pH units)	2	2	8.14	06/28/01	8.3	05/09/01	NA	NA	NA
Specific Conductance (uS/cm)	2	2	263	05/09/01	297	06/28/01	NA	NA	NA
Turbidity (NTU)	1	1	NA	NA	0.23	06/28/01	NA	NA	NA

[1] Values shown as "0" were non-detectable at their respective reporting limits.

TABLE 46: WATER QUALITY DATA SUMMARY, MAINSTEM BIG RIVER BELOW LNF BIG RIVER (SWAMP)

SITE NAME(S):	BIGMWD (See Figure 35 on page 147)								
PARAMETERS[1]	COUNT ALL	COUNT DETECTS	MIN	DATE MIN	MAX	DATE MAX	AVG.	90TH PERCENTILE	50TH PERCENTILE
Ammonia as N (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Bicarbonate Alkalinity (mg/l)	2	2	82	06/28/01	84	05/10/01	NA	NA	NA
Boron (ug/l)	2	2	250	05/10/01	330	06/28/01	NA	NA	NA
Cadmium (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Calcium (ug/l)	2	2	19000	06/28/01	20000	05/10/01	NA	NA	NA
Carbon Dioxide (free) (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Carbonate Alkalinity (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Chloride (mg/l)	1	1	6.5	06/28/01	6.5	06/28/01	NA	NA	NA
Chlorophyll-a (mg/l)	1	1	0.00071	06/28/01	0.00071	06/28/01	NA	NA	NA
Chromium (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Copper (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Hardness (mg/l)	2	2	73	06/28/01	77	05/10/01	NA	NA	NA
Hydroxide Alkalinity (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Iron (ug/l)	2	1	0	06/28/01	190	05/10/01	NA	NA	NA
Lead (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Magnesium (ug/l)	2	2	6500	06/28/01	6800	05/10/01	NA	NA	NA
Mercury (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Nickel (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Nitrate/Nitrite as N (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Orthophosphate as P (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
pH (pH units)	2	2	8	05/10/01	8	05/10/01	NA	NA	NA
Phosphorus (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Silica (SiO2) (ug/l)	2	2	13000	06/28/01	15000	05/10/01	NA	NA	NA
Sodium (ug/l)	2	2	12000	05/10/01	12000	05/10/01	NA	NA	NA
Specific Conductance (umho/cm)	1	1	190	06/28/01	190	06/28/01	NA	NA	NA
Sulfate as SO4 (mg/l)	1	1	7.1	06/28/01	7.1	06/28/01	NA	NA	NA
TDS (mg/l)	2	2	110	05/10/01	140	06/28/01	NA	NA	NA
Total Alkalinity (mg/l)	2	2	82	06/28/01	84	05/10/01	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Total Organic Carbon (mg/l)	2	1	0	05/10/01	1.3	06/28/01	NA	NA	NA
Zinc (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
FIELD MEASUREMENTS									
DO (mg/l)	2	2	8.96	06/28/01	9.38	05/10/01	NA	NA	NA
pH (pH units)	2	2	7.79	06/28/01	7.81	05/10/01	NA	NA	NA
Specific Conductance (uS/cm)	2	2	195	06/28/01	203	05/10/01	NA	NA	NA
Turbidity (NTU)	1	1	NA	NA	0.19	06/28/01	NA	NA	NA

[1] Values shown as "0" were non-detectable at their respective reporting limits.

TABLE 47: WATER QUALITY DATA SUMMARY, NF BIG RIVER BELOW CHAMBERLAIN CR. (SWAMP)

SITE NAME(S):	BIGH20 (See Figure 38 on page 150)								
PARAMETERS[1]	COUNT ALL	COUNT DETECTS	MIN	DATE MIN	MAX	DATE MAX	AVG.	90TH PERCENTILE	50TH PERCENTILE
Ammonia as N (mg/l)	2	1	0	05/10/01	0.12	06/28/01	NA	NA	NA
Bicarbonate Alkalinity (mg/l)	2	2	90	05/10/01	96	06/28/01	NA	NA	NA
Boron (ug/l)	2	2	240	05/10/01	300	06/28/01	NA	NA	NA
Cadmium (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Calcium (ug/l)	2	2	21000	05/10/01	22000	06/28/01	NA	NA	NA
Carbon Dioxide (free) (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Carbonate Alkalinity (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Chloride (mg/l)	1	1	8.1	06/28/01	8.1	06/28/01	NA	NA	NA
Chlorophyll-a (mg/l)	1	1	0.00078	06/28/01	0.00078	06/28/01	NA	NA	NA
Chromium (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Copper (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Hardness (mg/l)	2	2	82	05/10/01	85	06/28/01	NA	NA	NA
Hydroxide Alkalinity (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Iron (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Lead (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Magnesium (ug/l)	2	2	7000	05/10/01	7500	06/28/01	NA	NA	NA
Mercury (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Nickel (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
Nitrate/Nitrite as N (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Orthophosphate as P (mg/l)	2	1	0	06/28/01	0.058	05/10/01	NA	NA	NA
pH (pH units)	2	2	8.3	05/10/01	8.46	06/28/01	NA	NA	NA
Phosphorus (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Silica (SiO2) (ug/l)	2	2	17000	06/28/01	18000	05/10/01	NA	NA	NA
Sodium (ug/l)	2	2	12000	05/10/01	13000	06/28/01	NA	NA	NA
Specific Conductance (umho/cm)	1	1	220	06/28/01	220	06/28/01	NA	NA	NA
Sulfate as SO4 (mg/l)	1	1	6.3	06/28/01	6.3	06/28/01	NA	NA	NA
TDS (mg/l)	2	2	140	05/10/01	150	06/28/01	NA	NA	NA
Total Alkalinity (mg/l)	2	2	90	05/10/01	98	06/28/01	NA	NA	NA
Total Kjeldahl Nitrogen (mg/l)	2	0	0	NA	0	NA	NA	NA	NA
Total Organic Carbon (mg/l)	2	1	0	05/10/01	1.3	06/28/01	NA	NA	NA
Zinc (ug/l)	2	0	0	NA	0	NA	NA	NA	NA
FIELD MEASUREMENTS									
DO (mg/l)	2	2	9.86	06/28/01	10.33	05/10/01	NA	NA	NA
pH (pH units)	2	2	8.22	05/10/01	8.38	06/28/01	NA	NA	NA
Specific Conductance (uS/cm)	2	2	209	05/10/01	226	06/28/01	NA	NA	NA
Turbidity (NTU)	1	1	NA	NA	0.34	06/28/01	NA	NA	NA

[1] Values shown as “0” were non-detectable at their respective reporting limits.

TABLE 48: WATER QUALITY DATA SUMMARY, TRIBUTARY TO JAMES CREEK ABOVE HWY 20 SPILL (RWQCB)

SITE NAME(S):	RWQCB 2 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	7	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	7	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	7	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	7	0	0.0	0.0	NA	NA
1,1-Dichloroethane	7	0	0.0	0.0	NA	NA
1,1-Dichloroethane	7	0	0.0	0.0	NA	NA
1,1-Dichloropropene	7	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	7	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	7	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	7	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	7	0	0.0	0.0	NA	NA
1,2-Dibromo-3-chloropropane	7	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	7	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	7	0	0.0	0.0	NA	NA
1,2-Dichloroethane	7	0	0.0	0.0	NA	NA
1,2-Dichloropropane	7	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	7	0	0.0	0.0	NA	NA
1,3-Dichlorobenzene	7	0	0.0	0.0	NA	NA
1,3-Dichloropropane	7	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	7	0	0.0	0.0	NA	NA
2,2-Dichloropropane	7	0	0.0	0.0	NA	NA
2-Chlorotoluene	7	0	0.0	0.0	NA	NA
4-Chlorotoluene	7	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	7	0	0.0	0.0	NA	NA
Benzene	7	0	0.0	0.0	NA	NA
Bromobenzene	7	0	0.0	0.0	NA	NA
Bromochloromethane	7	0	0.0	0.0	NA	NA
Bromodichloromethane	7	0	0.0	0.0	NA	NA
Bromoform	7	0	0.0	0.0	NA	NA
Bromomethane	7	1	0.0	0.8	3/26/01	NA
Carbon Tetrachloride	7	0	0.0	0.0	NA	NA
Chlorobenzene	7	0	0.0	0.0	NA	NA
Chloroethane	7	0	0.0	0.0	NA	NA
Chloroform	7	0	0.0	0.0	NA	NA
Chloromethane	7	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	7	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	7	0	0.0	0.0	NA	NA
Dibromochloromethane	7	0	0.0	0.0	NA	NA
Dibromomethane	7	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	7	0	0.0	0.0	NA	NA
Ethylbenzene	7	1	0.0	0.7	3/26/01	NA
Hexachlorobutadiene	7	0	0.0	0.0	NA	NA
Isopropylbenzene	7	0	0.0	0.0	NA	NA
Methyl Ethyl Ketone (MEK)	7	0	0.0	0.0	NA	NA
Methyl Isobutyl Ketone (MIK)	7	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 2 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
Methyl tert-Butyl Ether (MtBE)	7	0	0.0	0.0	NA	NA
Methylene Chloride	7	0	0.0	0.0	NA	NA
Napthalene	7	0	0.0	0.0	NA	NA
n-Butylbenzene	7	0	0.0	0.0	NA	NA
n-Propylbenzene	7	0	0.0	0.0	NA	NA
p-Isopropyltoluene	7	0	0.0	0.0	NA	NA
sec-Butylbenzene	7	0	0.0	0.0	NA	NA
Styrene	7	0	0.0	0.0	NA	NA
tert-Butylbenzene	7	0	0.0	0.0	NA	NA
Tetrachloroethene	7	0	0.0	0.0	NA	NA
Toluene	7	0	0.0	0.0	NA	NA
TPH-d[1]	7	1	0.0	72.0	3/12/01	NA
TPH-mo[2]	7	0	0.0	0.0	NA	NA
trans-1,2-Dichloroethene	7	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	7	0	0.0	0.0	NA	NA
Trichloroethene	7	0	0.0	0.0	NA	NA
Trichlorofluoromethane	7	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	7	0	0.0	0.0	NA	NA
Vinyl Chloride	7	0	0.0	0.0	NA	NA
Xylene (total)	7	0	0.0	0.0	NA	NA

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 49: WATER QUALITY DATA SUMMARY, DAM ON TRIBUTARY TO JAMES CREEK BELOW HWY 20 (RWQCB)

SITE NAME(S):	RWQCB 3 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	74	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	74	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	74	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	74	0	0.0	0.0	NA	NA
1,1-Dichloroethane	74	0	0.0	0.0	NA	NA
1,1-Dichloroethane	74	0	0.0	0.0	NA	NA
1,1-Dichloropropene	74	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	74	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	74	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	74	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	74	27	0.0	71.0	3/15/01	27.9
1,2-Dibromo-3-chloropropane	74	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	74	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	74	0	0.0	0.0	NA	NA
1,2-Dichloroethane	74	0	0.0	0.0	NA	NA
1,2-Dichloropropane	74	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	74	28	0.0	27.0	3/23/01	12.0
1,3-Dichlorobenzene	74	0	0.0	0.0	NA	NA
1,3-Dichloropropane	74	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	74	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 3 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
2,2-Dichloropropane	74	0	0.0	0.0	NA	NA
2-Chlorotoluene	74	14	0.0	9.6	3/16/01	2.2
4-Chlorotoluene	74	1	0.0	4.4	3/16/01	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	74	4	0.0	210.0	3/17/01	122.8
Benzene	74	3	0.0	34.0	3/30/01	12.2
Bromobenzene	74	0	0.0	0.0	NA	NA
Bromochloromethane	74	0	0.0	0.0	NA	NA
Bromodichloromethane	74	0	0.0	0.0	NA	NA
Bromoform	74	0	0.0	0.0	NA	NA
Bromomethane	74	0	0.0	0.0	NA	NA
Carbon Tetrachloride	74	0	0.0	0.0	NA	NA
Chlorobenzene	74	0	0.0	0.0	NA	NA
Chloroethane	74	0	0.0	0.0	NA	NA
Chloroform	74	0	0.0	0.0	NA	NA
Chloromethane	74	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	74	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	74	0	0.0	0.0	NA	NA
Dibromochloromethane	74	2	0.0	13.0	3/20/01	NA
Dibromomethane	74	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	74	0	0.0	0.0	NA	NA
Ethylbenzene	74	25	0.0	25.0	3/18/01	7.5
Hexachlorobutadiene	74	0	0.0	0.0	NA	NA
Isopropylbenzene	74	5	0.0	4.6	3/16/01	2.2
Methyl Ethyl Ketone (MEK)	74	1	0.0	16.0	3/16/01	NA
Methyl Isobutyl Ketone (MIK)	74	4	0.0	16.0	3/16/01	7.5
Methyl tert-Butyl Ether (MtBE)	74	45	0.0	3,600.0	3/20/01	99.3
Methylene Chloride	74	6	0.0	14.0	3/26/01	3.7
Napthalene	74	26	0.0	32.0	3/15/01	15.0
n-Butylbenzene	74	22	0.0	8.9	3/23/01	3.0
n-Propylbenzene	74	20	0.0	11.0	3/23/01	3.8
p-Isopropyltoluene	74	7	0.0	5.8	3/16/01	1.9
sec-Butylbenzene	74	4	0.0	42.0	3/16/01	11.3
Styrene	74	2	0.0	5.2	3/16/01	NA
tert-Butylbenzene	74	3	0.0	11.0	3/16/01	6.5
Tetrachloroethene	74	57	0.0	16.0	3/18/01	5.8
Toluene	74	25	0.0	84.0	3/18/01	23.7
TPH-d[1]	74	52	0.0	110,000.0	3/17/01	11,661.1
TPH-mo[2]	74	51	0.0	280,000.0	3/17/01	32,026.7
trans-1,2-Dichloroethene	74	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	74	0	0.0	0.0	NA	NA
Trichloroethene	74	0	0.0	0.0	NA	NA
Trichlorofluoromethane	74	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	74	0	0.0	0.0	NA	NA
Vinyl Chloride	74	0	0.0	0.0	NA	NA
Xylene (total)	74	27	0.0	180.0	3/18/01	64.9

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 50: WATER QUALITY DATA SUMMARY, DISCHARGE FROM TREATMENT SYSTEM, TRIBUTARY TO JAMES CREEK (RWQCB)

SITE NAME(S):	RWQCB 4 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	60	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	60	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	60	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	60	0	0.0	0.0	NA	NA
1,1-Dichloroethane	60	0	0.0	0.0	NA	NA
1,1-Dichloroethane	60	0	0.0	0.0	NA	NA
1,1-Dichloropropene	60	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	60	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	60	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	60	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	60	1	0.0	4.6	11/26/01	NA
1,2-Dibromo-3-chloropropane	60	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	60	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	60	0	0.0	0.0	NA	NA
1,2-Dichloroethane	60	0	0.0	0.0	NA	NA
1,2-Dichloropropane	60	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	60	1	0.0	1.3	11/26/01	NA
1,3-Dichlorobenzene	60	0	0.0	0.0	NA	NA
1,3-Dichloropropane	60	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	60	0	0.0	0.0	NA	NA
2,2-Dichloropropane	60	0	0.0	0.0	NA	NA
2-Chlorotoluene	60	0	0.0	0.0	NA	NA
4-Chlorotoluene	60	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	60	3	0.0	1,900.0	3/11/02	639.1
Benzene	60	0	0.0	0.0	NA	NA
Bromobenzene	60	0	0.0	0.0	NA	NA
Bromochloromethane	60	0	0.0	0.0	NA	NA
Bromodichloromethane	60	0	0.0	0.0	NA	NA
Bromoform	60	0	0.0	0.0	NA	NA
Bromomethane	60	0	0.0	0.0	NA	NA
Carbon Tetrachloride	60	0	0.0	0.0	NA	NA
Chlorobenzene	60	0	0.0	0.0	NA	NA
Chloroethane	60	0	0.0	0.0	NA	NA
Chloroform	60	0	0.0	0.0	NA	NA
Chloromethane	60	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	60	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	60	0	0.0	0.0	NA	NA
Dibromochloromethane	60	0	0.0	0.0	NA	NA
Dibromomethane	60	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	60	0	0.0	0.0	NA	NA
Ethylbenzene	60	0	0.0	0.0	NA	NA
Hexachlorobutadiene	60	0	0.0	0.0	NA	NA
Isopropylbenzene	60	0	0.0	0.0	NA	NA
Methyl Ethyl Ketone (MEK)	60	1	0.0	6.2	1/21/02	NA
Methyl Isobutyl Ketone (MIK)	60	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 4 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
Methyl tert-Butyl Ether (MtBE)	60	0	0.0	0.0	NA	NA
Methylene Chloride	60	1	0.0	6.4	12/10/01	NA
Napthalene	60	2	0.0	11.0	11/26/01	NA
n-Butylbenzene	60	0	0.0	0.0	NA	NA
n-Propylbenzene	60	0	0.0	0.0	NA	NA
p-Isopropyltoluene	60	1	0.0	6.2	11/26/01	NA
sec-Butylbenzene	60	0	0.0	0.0	NA	NA
Styrene	60	0	0.0	0.0	NA	NA
tert-Butylbenzene	60	0	0.0	0.0	NA	NA
Tetrachloroethene	60	0	0.0	0.0	NA	NA
Toluene	60	2	0.0	0.8	11/26/01	NA
TPH-d[1]	60	21	0.0	370.0	12/3/01	141.4
TPH-mo[2]	60	22	0.0	1,100.0	12/3/01	320.9
trans-1,2-Dichloroethene	60	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	60	0	0.0	0.0	NA	NA
Trichloroethene	60	0	0.0	0.0	NA	NA
Trichlorofluoromethane	60	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	60	0	0.0	0.0	NA	NA
Vinyl Chloride	60	0	0.0	0.0	NA	NA
Xylene (total)	60	1	0.0	2.9	11/26/01	NA

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 51: WATER QUALITY DATA SUMMARY, DISCHARGE OF DAM OVERFLOW PIPE, TRIBUTARY TO JAMES CREEK (RWQCB)

SITE NAME(S):	RWQCB 5 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	18	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	18	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	18	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	18	0	0.0	0.0	NA	NA
1,1-Dichloroethane	18	0	0.0	0.0	NA	NA
1,1-Dichloroethane	18	0	0.0	0.0	NA	NA
1,1-Dichloropropene	18	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	18	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	18	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	18	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	18	0	0.0	0.0	NA	NA
1,2-Dibromo-3-chloropropane	18	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	18	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	18	0	0.0	0.0	NA	NA
1,2-Dichloroethane	18	0	0.0	0.0	NA	NA
1,2-Dichloropropane	18	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	18	0	0.0	0.0	NA	NA
1,3-Dichlorobenzene	18	0	0.0	0.0	NA	NA
1,3-Dichloropropane	18	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	18	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 5 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
2,2-Dichloropropane	18	0	0.0	0.0	NA	NA
2-Chlorotoluene	18	0	0.0	0.0	NA	NA
4-Chlorotoluene	18	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	18	1	0.0	58.0	3/11/02	NA
Benzene	18	0	0.0	0.0	NA	NA
Bromobenzene	18	0	0.0	0.0	NA	NA
Bromochloromethane	18	0	0.0	0.0	NA	NA
Bromodichloromethane	18	0	0.0	0.0	NA	NA
Bromoform	18	0	0.0	0.0	NA	NA
Bromomethane	18	0	0.0	0.0	NA	NA
Carbon Tetrachloride	18	0	0.0	0.0	NA	NA
Chlorobenzene	18	0	0.0	0.0	NA	NA
Chloroethane	18	0	0.0	0.0	NA	NA
Chloroform	18	0	0.0	0.0	NA	NA
Chloromethane	18	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	18	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	18	0	0.0	0.0	NA	NA
Dibromochloromethane	18	0	0.0	0.0	NA	NA
Dibromomethane	18	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	18	0	0.0	0.0	NA	NA
Ethylbenzene	18	0	0.0	0.0	NA	NA
Hexachlorobutadiene	18	0	0.0	0.0	NA	NA
Isopropylbenzene	18	0	0.0	0.0	NA	NA
Methyl Ethyl Ketone (MEK)	18	0	0.0	0.0	NA	NA
Methyl Isobutyl Ketone (MIK)	18	0	0.0	0.0	NA	NA
Methyl tert-Butyl Ether (MtBE)	18	0	0.0	0.0	NA	NA
Methylene Chloride	18	0	0.0	0.0	NA	NA
Napthalene	18	0	0.0	0.0	NA	NA
n-Butylbenzene	18	0	0.0	0.0	NA	NA
n-Propylbenzene	18	0	0.0	0.0	NA	NA
p-Isopropyltoluene	18	0	0.0	0.0	NA	NA
sec-Butylbenzene	18	0	0.0	0.0	NA	NA
Styrene	18	0	0.0	0.0	NA	NA
tert-Butylbenzene	18	0	0.0	0.0	NA	NA
Tetrachloroethene	18	1	0.0	0.7	12/17/01	NA
Toluene	18	0	0.0	0.0	NA	NA
TPH-d[1]	18	9	0.0	470.0	1/21/02	143.8
TPH-mo[2]	18	10	0.0	1,200.0	1/21/02	341.0
trans-1,2-Dichloroethene	18	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	18	0	0.0	0.0	NA	NA
Trichloroethene	18	0	0.0	0.0	NA	NA
Trichlorofluoromethane	18	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	18	0	0.0	0.0	NA	NA
Vinyl Chloride	18	0	0.0	0.0	NA	NA
Xylene (total)	18	0	0.0	0.0	NA	NA

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 52: WATER QUALITY DATA SUMMARY, TRIBUTARY TO JAMES CREEK BELOW LAST VISIBLE OIL (RWQCB)

SITE NAME(S):	RWQCB 6 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	35	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	35	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	35	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	35	0	0.0	0.0	NA	NA
1,1-Dichloroethane	35	0	0.0	0.0	NA	NA
1,1-Dichloroethane	35	0	0.0	0.0	NA	NA
1,1-Dichloropropene	35	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	35	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	35	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	35	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	35	29	0.0	26.0	3/5/01	9.1
1,2-Dibromo-3-chloropropane	35	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	35	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	35	0	0.0	0.0	NA	NA
1,2-Dichloroethane	35	0	0.0	0.0	NA	NA
1,2-Dichloropropane	35	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	35	28	0.0	9.3	3/26/01	3.8
1,3-Dichlorobenzene	35	0	0.0	0.0	NA	NA
1,3-Dichloropropane	35	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	35	0	0.0	0.0	NA	NA
2,2-Dichloropropane	35	0	0.0	0.0	NA	NA
2-Chlorotoluene	35	11	0.0	1.8	3/26/01	1.0
4-Chlorotoluene	35	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	35	9	0.0	52.0	3/4/01	16.8
Benzene	35	9	0.0	2.8	3/4/01	1.3
Bromobenzene	35	0	0.0	0.0	NA	NA
Bromochloromethane	35	0	0.0	0.0	NA	NA
Bromodichloromethane	35	0	0.0	0.0	NA	NA
Bromoform	35	0	0.0	0.0	NA	NA
Bromomethane	35	0	0.0	0.0	NA	NA
Carbon Tetrachloride	35	0	0.0	0.0	NA	NA
Chlorobenzene	35	0	0.0	0.0	NA	NA
Chloroethane	35	0	0.0	0.0	NA	NA
Chloroform	35	0	0.0	0.0	NA	NA
Chloromethane	35	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	35	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	35	0	0.0	0.0	NA	NA
Dibromochloromethane	35	0	0.0	0.0	NA	NA
Dibromomethane	35	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	35	0	0.0	0.0	NA	NA
Ethylbenzene	35	27	0.0	11.0	¾/01	3.4
Hexachlorobutadiene	35	0	0.0	0.0	NA	NA
Isopropylbenzene	35	11	0.0	1.2	3/14/01	1.0
Methyl Ethyl Ketone (MEK)	35	5	0.0	16.0	3/4/01	7.2
Methyl Isobutyl Ketone (MIK)	35	19	0.0	42.0	3/4/01	9.2

SITE NAME(S):	RWQCB 6 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
Methyl tert-Butyl Ether (MtBE)	35	34	0.0	69.0	3/4/01	12.8
Methylene Chloride	35	5	0.0	2.3	3/30/01	1.2
Napthalene	35	29	0.0	24.0	3/5/01	8.8
n-Butylbenzene	35	10	0.0	2.0	3/10/01	1.3
n-Propylbenzene	35	20	0.0	1.8	3/5/01	1.3
p-Isopropyltoluene	35	0	0.0	0.0	NA	NA
sec-Butylbenzene	35	0	0.0	0.0	NA	NA
Styrene	35	1	0.0	0.9	3/26/01	NA
tert-Butylbenzene	35	1	0.0	3.2	3/26/01	NA
Tetrachloroethene	35	34	0.0	38.0	3/8/01	3.6
Toluene	35	28	0.0	76.0	3/4/01	15.5
TPH-d[1]	35	24	0.0	11,000.0	3/10/01	1,577.3
TPH-mo[2]	35	22	0.0	32,000.0	3/10/01	4,859.5
trans-1,2-Dichloroethene	35	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	35	0	0.0	0.0	NA	NA
Trichloroethene	35	0	0.0	0.0	NA	NA
Trichlorofluoromethane	35	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	35	0	0.0	0.0	NA	NA
Vinyl Chloride	35	0	0.0	0.0	NA	NA
Xylene (total)	35	29	0.0	85.0	3/4/01	28.8

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 53: WATER QUALITY DATA SUMMARY, TRIBUTARY TO JAMES CREEK 50 FT ABOVE CONFLUENCE (RWQCB)

SITE NAME(S):	RWQCB 7 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	79	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	79	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	79	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	79	0	0.0	0.0	NA	NA
1,1-Dichloroethane	79	0	0.0	0.0	NA	NA
1,1-Dichloroethane	79	0	0.0	0.0	NA	NA
1,1-Dichloropropene	79	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	79	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	79	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	79	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	79	9	0.0	24.3	2/27/01	4.1
1,2-Dibromo-3-chloropropane	79	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	79	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	79	0	0.0	0.0	NA	NA
1,2-Dichloroethane	79	0	0.0	0.0	NA	NA
1,2-Dichloropropane	79	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	79	8	0.0	1.5	3/5/01	1.0
1,3-Dichlorobenzene	79	0	0.0	0.0	NA	NA
1,3-Dichloropropane	79	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	79	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 7 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
2,2-Dichloropropane	79	0	0.0	0.0	NA	NA
2-Chlorotoluene	79	0	0.0	0.0	NA	NA
4-Chlorotoluene	79	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	1	163.0	163.0	2/27/01	NA
Acetone	79	9	0.0	630.0	4/5/01	109.7
Benzene	79	1	0.0	18.3	2/27/01	NA
Bromobenzene	79	0	0.0	0.0	NA	NA
Bromochloromethane	79	0	0.0	0.0	NA	NA
Bromodichloromethane	79	0	0.0	0.0	NA	NA
Bromoform	79	0	0.0	0.0	NA	NA
Bromomethane	79	0	0.0	0.0	NA	NA
Carbon Tetrachloride	79	0	0.0	0.0	NA	NA
Chlorobenzene	79	0	0.0	0.0	NA	NA
Chloroethane	79	0	0.0	0.0	NA	NA
Chloroform	79	0	0.0	0.0	NA	NA
Chloromethane	79	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	79	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	79	0	0.0	0.0	NA	NA
Dibromochloromethane	79	0	0.0	0.0	NA	NA
Dibromomethane	79	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	79	0	0.0	0.0	NA	NA
Ethylbenzene	79	4	0.0	17.9	2/27/01	5.3
Hexachlorobutadiene	79	0	0.0	0.0	NA	NA
Isopropylbenzene	79	0	0.0	0.0	NA	NA
Lead	1	0	0.0	0.0	NA	NA
Methyl Ethyl Ketone (MEK)	79	3	0.0	6.7	3/5/01	4.4
Methyl Isobutyl Ketone (MIK)	79	6	0.0	27.0	3/5/01	9.8
Methyl tert-Butyl Ether (MtBE)	79	34	0.0	521.0	2/27/01	20.5
Methylene Chloride	79	5	0.0	36.0	12/10/01	8.4
Napthalene	79	12	0.0	13.0	3/5/01	5.4
n-Butylbenzene	79	0	0.0	0.0	NA	NA
Nickel	1	0	0.0	0.0	NA	NA
n-Propylbenzene	79	0	0.0	0.0	NA	NA
p-Isopropyltoluene	79	0	0.0	0.0	NA	NA
sec-Butylbenzene	79	0	0.0	0.0	NA	NA
Styrene	79	0	0.0	0.0	NA	NA
tert-Butylbenzene	79	0	0.0	0.0	NA	NA
Tetrachloroethene	79	2	0.0	7.5	11/19/01	NA
Toluene	79	10	0.0	199.0	2/27/01	22.3
TPH-d[1]	79	21	0.0	2,050.0	2/27/01	502.9
TPH-mo[2]	79	20	0.0	5,600.0	3/5/01	1,230.2
trans-1,2-Dichloroethene	79	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	79	0	0.0	0.0	NA	NA
Trichloroethene	79	0	0.0	0.0	NA	NA
Trichlorofluoromethane	79	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	79	0	0.0	0.0	NA	NA
Vanadium	1	0	0.0	0.0	NA	NA
Vinyl Chloride	79	0	0.0	0.0	NA	NA
Xylene (total)	79	13	0.0	114.9	2/27/01	12.3

[1] Total petroleum hydrocarbons as diesel

[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 54: WATER QUALITY DATA SUMMARY, JAMES CREEK 50 FT ABOVE TRIBUTARY (RWQCB)

SITE NAME(S):	RWQCB 8 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	16	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	16	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	16	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	16	0	0.0	0.0	NA	NA
1,1-Dichloroethane	16	0	0.0	0.0	NA	NA
1,1-Dichloroethane	16	0	0.0	0.0	NA	NA
1,1-Dichloropropene	16	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	16	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	16	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	16	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	16	1	0.0	0.9	3/24/01	NA
1,2-Dibromo-3-chloropropane	16	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	16	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	16	0	0.0	0.0	NA	NA
1,2-Dichloroethane	16	0	0.0	0.0	NA	NA
1,2-Dichloropropane	16	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	16	0	0.0	0.0	NA	NA
1,3-Dichlorobenzene	16	0	0.0	0.0	NA	NA
1,3-Dichloropropane	16	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	16	0	0.0	0.0	NA	NA
2,2-Dichloropropane	16	0	0.0	0.0	NA	NA
2-Chlorotoluene	16	0	0.0	0.0	NA	NA
4-Chlorotoluene	16	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	16	2	0.0	11.0	3/29/01	NA
Benzene	16	0	0.0	0.0	NA	NA
Bromobenzene	16	0	0.0	0.0	NA	NA
Bromochloromethane	16	0	0.0	0.0	NA	NA
Bromodichloromethane	16	0	0.0	0.0	NA	NA
Bromoform	16	0	0.0	0.0	NA	NA
Bromomethane	16	0	0.0	0.0	NA	NA
Carbon Tetrachloride	16	0	0.0	0.0	NA	NA
Chlorobenzene	16	0	0.0	0.0	NA	NA
Chloroethane	16	0	0.0	0.0	NA	NA
Chloroform	16	0	0.0	0.0	NA	NA
Chloromethane	16	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	16	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	16	0	0.0	0.0	NA	NA
Dibromochloromethane	16	0	0.0	0.0	NA	NA
Dibromomethane	16	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	16	0	0.0	0.0	NA	NA
Ethylbenzene	16	0	0.0	0.0	NA	NA
Hexachlorobutadiene	16	0	0.0	0.0	NA	NA
Isopropylbenzene	16	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 8 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
Methyl Ethyl Ketone (MEK)	16	0	0.0	0.0	NA	NA
Methyl Isobutyl Ketone (MIK)	16	0	0.0	0.0	NA	NA
Methyl tert-Butyl Ether (MtBE)	16	11	0.0	4.8	3/26/01	3.2
Methylene Chloride	16	1	0.0	1.0	3/31/01	NA
Napthalene	16	3	0.0	109.0	3/30/01	37.3
n-Butylbenzene	16	0	0.0	0.0	NA	NA
n-Propylbenzene	16	0	0.0	0.0	NA	NA
p-Isopropyltoluene	16	0	0.0	0.0	NA	NA
sec-Butylbenzene	16	0	0.0	0.0	NA	NA
Styrene	16	0	0.0	0.0	NA	NA
tert-Butylbenzene	16	0	0.0	0.0	NA	NA
Tetrachloroethene	16	0	0.0	0.0	NA	NA
Toluene	16	0	0.0	0.0	NA	NA
TPH-d[1]	16	2	0.0	160.0	3/25/01	NA
TPH-mo[2]	16	2	0.0	230.0	3/25/01	NA
trans-1,2-Dichloroethene	16	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	16	0	0.0	0.0	NA	NA
Trichloroethene	16	0	0.0	0.0	NA	NA
Trichlorofluoromethane	16	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	16	0	0.0	0.0	NA	NA
Vinyl Chloride	16	0	0.0	0.0	NA	NA
Xylene (total)	16	0	0.0	0.0	NA	NA

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 55: WATER QUALITY DATA SUMMARY, JAMES CREEK 50 FT BELOW TRIBUTARY (RWQCB)

SITE NAME(S):	RWQCB 9 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	77	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	77	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	77	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	77	0	0.0	0.0	NA	NA
1,1-Dichloroethane	77	0	0.0	0.0	NA	NA
1,1-Dichloroethane	77	0	0.0	0.0	NA	NA
1,1-Dichloropropene	77	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	77	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	77	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	77	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	77	1	0.0	1.1	3/5/01	NA
1,2-Dibromo-3-chloropropane	77	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	77	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	77	0	0.0	0.0	NA	NA
1,2-Dichloroethane	77	0	0.0	0.0	NA	NA
1,2-Dichloropropane	77	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	77	0	0.0	0.0	NA	NA
1,3-Dichlorobenzene	77	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 9 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,3-Dichloropropane	77	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	77	0	0.0	0.0	NA	NA
2,2-Dichloropropane	77	0	0.0	0.0	NA	NA
2-Chlorotoluene	77	0	0.0	0.0	NA	NA
4-Chlorotoluene	77	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	77	8	0.0	29.0	2/11/02	10.5
Benzene	77	0	0.0	0.0	NA	NA
Bromobenzene	77	0	0.0	0.0	NA	NA
Bromochloromethane	77	0	0.0	0.0	NA	NA
Bromodichloromethane	77	0	0.0	0.0	NA	NA
Bromoform	77	0	0.0	0.0	NA	NA
Bromomethane	77	0	0.0	0.0	NA	NA
Carbon Tetrachloride	77	0	0.0	0.0	NA	NA
Chlorobenzene	77	0	0.0	0.0	NA	NA
Chloroethane	77	0	0.0	0.0	NA	NA
Chloroform	77	0	0.0	0.0	NA	NA
Chloromethane	77	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	77	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	77	0	0.0	0.0	NA	NA
Dibromochloromethane	77	0	0.0	0.0	NA	NA
Dibromomethane	77	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	77	0	0.0	0.0	NA	NA
Ethylbenzene	77	0	0.0	0.0	NA	NA
Hexachlorobutadiene	77	0	0.0	0.0	NA	NA
Isopropylbenzene	77	0	0.0	0.0	NA	NA
Methyl Ethyl Ketone (MEK)	77	1	0.0	2.5	3/5/01	NA
Methyl Isobutyl Ketone (MIK)	77	2	0.0	5.2	3/5/01	NA
Methyl tert-Butyl Ether (MtBE)	77	8	0.0	5.5	3/5/01	1.9
Methylene Chloride	77	5	0.0	3.8	12/10/01	1.5
Napthalene	77	4	0.0	3.2	3/5/01	2.3
n-Butylbenzene	77	0	0.0	0.0	NA	NA
n-Propylbenzene	77	0	0.0	0.0	NA	NA
p-Isopropyltoluene	77	0	0.0	0.0	NA	NA
sec-Butylbenzene	77	0	0.0	0.0	NA	NA
Styrene	77	0	0.0	0.0	NA	NA
tert-Butylbenzene	77	0	0.0	0.0	NA	NA
Tetrachloroethene	77	1	0.0	2.8	11/19/01	NA
Toluene	77	2	0.0	1.2	3/5/01	NA
TPH-d[1]	77	10	0.0	790.0	3/5/01	210.1
TPH-mo[2]	77	7	0.0	2,800.0	3/5/01	791.4
trans-1,2-Dichloroethene	77	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	77	0	0.0	0.0	NA	NA
Trichloroethene	77	0	0.0	0.0	NA	NA
Trichlorofluoromethane	77	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	77	0	0.0	0.0	NA	NA
Vinyl Chloride	77	0	0.0	0.0	NA	NA
Xylene (total)	77	1	0.0	2.5	3/5/01	NA

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil

[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 56: WATER QUALITY DATA SUMMARY, JAMES CREEK AT FIRE ROAD 100 (RWQCB)

SITE NAME(S):	RWQCB 10 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
1,1,1,2-Tetrachloroethane	9	0	0.0	0.0	NA	NA
1,1,1-Trichloroethane	9	0	0.0	0.0	NA	NA
1,1,2,2-Tetrachloroethane	9	0	0.0	0.0	NA	NA
1,1,2-Trichlorethane	9	0	0.0	0.0	NA	NA
1,1-Dichloroethane	9	0	0.0	0.0	NA	NA
1,1-Dichloroethane	9	0	0.0	0.0	NA	NA
1,1-Dichloropropene	9	0	0.0	0.0	NA	NA
1,2,3-Trichlorobenzene	9	0	0.0	0.0	NA	NA
1,2,3-Trichloropropane	9	0	0.0	0.0	NA	NA
1,2,4-Trichlorobenzene	9	0	0.0	0.0	NA	NA
1,2,4-Trimethylbenzene	9	0	0.0	0.0	NA	NA
1,2-Dibromo-3-chloropropane	9	0	0.0	0.0	NA	NA
1,2-Dibromoethane (EDB)	9	0	0.0	0.0	NA	NA
1,2-Dichlorobenzene	9	0	0.0	0.0	NA	NA
1,2-Dichloroethane	9	0	0.0	0.0	NA	NA
1,2-Dichloropropane	9	0	0.0	0.0	NA	NA
1,3,5-Trimethylbenzene	9	0	0.0	0.0	NA	NA
1,3-Dichlorobenzene	9	0	0.0	0.0	NA	NA
1,3-Dichloropropane	9	0	0.0	0.0	NA	NA
1,4-Dichlorobenzene	9	0	0.0	0.0	NA	NA
2,2-Dichloropropane	9	0	0.0	0.0	NA	NA
2-Chlorotoluene	9	0	0.0	0.0	NA	NA
4-Chlorotoluene	9	0	0.0	0.0	NA	NA
4-Methyl-2-pentanone	1	0	0.0	0.0	NA	NA
Acetone	9	1	0.0	5.5	3/19/01	NA
Benzene	9	0	0.0	0.0	NA	NA
Bromobenzene	9	0	0.0	0.0	NA	NA
Bromochloromethane	9	0	0.0	0.0	NA	NA
Bromodichloromethane	9	0	0.0	0.0	NA	NA
Bromoform	9	0	0.0	0.0	NA	NA
Bromomethane	9	0	0.0	0.0	NA	NA
Carbon Tetrachloride	9	0	0.0	0.0	NA	NA
Chlorobenzene	9	0	0.0	0.0	NA	NA
Chloroethane	9	0	0.0	0.0	NA	NA
Chloroform	9	0	0.0	0.0	NA	NA
Chloromethane	9	0	0.0	0.0	NA	NA
cis-1,2-Dichloroethene	9	0	0.0	0.0	NA	NA
cis-1,3-Dichloropropene	9	0	0.0	0.0	NA	NA
Dibromochloromethane	9	0	0.0	0.0	NA	NA
Dibromomethane	9	0	0.0	0.0	NA	NA
Dichlorodifluoromethane	9	0	0.0	0.0	NA	NA
Ethylbenzene	9	0	0.0	0.0	NA	NA
Hexachlorobutadiene	9	0	0.0	0.0	NA	NA
Isopropylbenzene	9	0	0.0	0.0	NA	NA
Lead	1	0	0.0	0.0	NA	NA

SITE NAME(S):	RWQCB 10 (See Figure 38 on page 150)					
PARAMETERS[3,4]	COUNT ALL	COUNT DETECTS	MIN	MAX	DATE MAX	AVG.
Methyl Ethyl Ketone (MEK)	9	0	0.0	0.0	NA	NA
Methyl Isobutyl Ketone (MIK)	9	0	0.0	0.0	NA	NA
Methyl tert-Butyl Ether (MtBE)	9	1	0.0	4.7	2/27/01	NA
Methylene Chloride	9	2	0.0	1.2	3/17/01	NA
Napthalene	9	0	0.0	0.0	NA	NA
n-Butylbenzene	9	0	0.0	0.0	NA	NA
Nickel	1	0	0.0	0.0	NA	NA
n-Propylbenzene	9	0	0.0	0.0	NA	NA
p-Isopropyltoluene	9	0	0.0	0.0	NA	NA
sec-Butylbenzene	9	0	0.0	0.0	NA	NA
Styrene	9	0	0.0	0.0	NA	NA
tert-Butylbenzene	9	0	0.0	0.0	NA	NA
Tetrachloroethene	9	0	0.0	0.0	NA	NA
Toluene	9	0	0.0	0.0	NA	NA
TPH-d[1]	9	2	0.0	98.0	3/12/01	NA
TPH-mo[2]	9	1	0.0	110.0	3/12/01	NA
trans-1,2-Dichloroethene	9	0	0.0	0.0	NA	NA
trans-1,3-Dichloropropene	9	0	0.0	0.0	NA	NA
Trichloroethene	9	0	0.0	0.0	NA	NA
Trichlorofluoromethane	9	0	0.0	0.0	NA	NA
Trichlorotrifluoroethane	9	0	0.0	0.0	NA	NA
Vanadium	1	0	0.0	0.0	NA	NA
Vinyl Chloride	9	0	0.0	0.0	NA	NA
Xylene (total)	9	0	0.0	0.0	NA	NA

[1] Total petroleum hydrocarbons as diesel
[2] Total petroleum hydrocarbons as motor oil
[3] Values shown as "0.0" were non-detectable at their respective reporting limits. All values given in µg/l (ppb).
[4] Summary sample data as of April 15, 2002. Sampling is on-going.

TABLE 57: MACROINVERTIBRATE DATA, LITTLE NORTH FORK AT MENDOCINO WOODLANDS (JSF)

SITE NAME(S):	JSF M1 (See Figure 35 on page 147)			
FAMILY	**FAMILY DESIGNATION (F-DESIG)[1]**	**# OF ORGANISMS**	**TOLERANCE VALUE (T-VALUE)[2]**	**TOTAL**
Aeshnidae (dragonfly)	P	1	3	3
Calamoceratidae (caddisfly)	SH	3	2	6
Coenagrionidae (dragonfly)	P	1	9	9
Ephemerellidae (mayfly)	SC	1	1	1
Gomphidae (dragonfly)	P	3	4	12
Heptageniidae (mayfly)	SC	14	4	56
Lepidostomatidae (caddisfly)	SH	2	1	2
Limnephilidae (caddisfly)	SH	1	4	4
Lymnaeidae (aquatic snail)	--	8	--	--
Oligochaeta (aquatic worm)	CG	4	8	32
Perlodidae (stonefly)	P	1	2	2
Physidae (aquatic snail)	--	1	--	--
Sericostomatidae (caddisfly)	SH	1	3	3
Summary Values				
Total Number of Organisms				**41**
Total Number of Organisms with Tolerance Values				**32**
Sum of Tolerance Values * Number of Organisms				**130**

[1] CG = Collectors, FC = Filterers, SC = Scrapers, P = Predators, SH = Shredders
[2] Harrington and Born 2000.

TABLE 58: MACROINVERTIBRATE SUMMARY DATA, LITTLE NORTH FORK AT MENDOCINO WOODLANDS (JSF)

BIOLOGICAL INDICATORS	VALUES
Richness Measures	
Taxa Richness (Family grouping)	13
Ephermeroptera Taxa	15
Plecoptera Taxa	1
Trichoptera Taxa	7
EPT Taxa	23
Composition Measures	
EPT Index	56%
Sensitive EPT Index	20%
Percent Hydropsychidae	0%
Percent Baetidae	0%
Tolerance/Intolerance Measures	
Tolerance Value	4.1
Percent Intolerant	22%
Percent Tolerant	16%
Percent Dominant Taxa[1]	37%
Trophic Measures	
Percent Collectors (CG)	13%
Percent Filterers (FC)	0%
Percent Scrapers (SC)	47%
Percent Predators (P)	19%
Percent Shredders (SH)	22%

[1] Dominant taxa is Ephermeroptera.

TABLE 59: TURBIDITY & SSC SITES, UPPER BIG RIVER SUBBASIN (GMA)

STATION	DATE	TURBIDITY (NTU)	SSC (MG/L)	DISCHARGE (CFS)
SITE NAME: GMA 6				
Big River above SF Big River	08/Jan/2001 07:32	3.8	14.08	
Big River above SF Big River	24/Jan/2001 13:20	41.9	20.06	26.87
Big River above SF Big River	25/Jan/2001 15:04	26.5	19.60	
Big River above SF Big River	20/Feb/2001 07:21	240.0	190.30	
Big River above SF Big River	20/Feb/2001 00:47	24.0	23.90	
Big River above SF Big River	22/Feb/2001 17:45	38.0	33.20	391.30
Big River above SF Big River	05/Mar/2001 15:40	32.1	25	295.54

Source: Graham Matthews & Associates, 2001

TABLE 60: TURBIDITY & SSC SITES, NORTH FORK BIG RIVER SUBBASIN (GMA)

STATION	DATE	TURBIDITY (NTU)	SSC (MG/L)	DISCHARGE (CFS)
SITE NAME: GMA 1				
Chamberlain Creek above NF Big River	04/Feb/2000 14:02	5.2	3.52	
Chamberlain Creek above NF Big River	05/Feb/2000 11:23	25.0	32.35	60.88
Chamberlain Creek above NF Big River	13/Feb/2000 15:56	67.5	87.34	
Chamberlain Creek above NF Big River	14/Feb/2000 10:10	114.0	181.59	
Chamberlain Creek above NF Big River	14/Feb/2000 16:25	50.9	96.31	
Chamberlain Creek above NF Big River	15/Feb/2000 09:38	41.2	32.35	
Chamberlain Creek above NF Big River	27/Feb/2000 08:53	35.5	35.72	
Chamberlain Creek above NF Big River	08/Jan/2001 09:33	14.8	20.07	
Chamberlain Creek above NF Big River	19/Feb/2001 23:13	28.3	25.54	
Chamberlain Creek above NF Big River	20/Feb/2001 02:48	41.0	36.41	
Chamberlain Creek above NF Big River	20/Feb/2001 09:04	43.7	48.43	
Chamberlain Creek above NF Big River	24/Feb/2001 14:23	15.7	4.90	
Chamberlain Creek above NF Big River	05/Mar/2001 14:41	20.7	7.56	95.60
SITE NAME: GMA 2				
NF Big River above Chamberlain Creek	21/Jan/2000 00:00	18.0	9.91	
NF Big River above Chamberlain Creek	04/Feb/2000 13:38	7.4	5.54	
NF Big River above Chamberlain Creek	05/Feb/2000 09:53	12.0	15.52	55.97
NF Big River above Chamberlain Creek	13/Feb/2000 15:45	50.6	58.16	
NF Big River above Chamberlain Creek	14/Feb/2000 09:58	214.0	226.48	
NF Big River above Chamberlain Creek	14/Feb/2000 16:16	142.0	170.37	498.78
NF Big River above Chamberlain Creek	15/Feb/2000 09:38	34.3	49.18	254.79
NF Big River above Chamberlain Creek	25/Feb/2000 09:21	21.1	6.54	122.41
NF Big River above Chamberlain Creek	27/Feb/2000 08:53	73.7	99.68	299.08
NF Big River above Chamberlain Creek	27/Feb/2000 14:00	79.7	100.80	320.63
NF Big River above Chamberlain Creek	08/Jan/2001 09:20	1.6	3.97	2.94
NF Big River above Chamberlain Creek	25/Jan/2001 16:40	38.7	25.10	29.08
NF Big River above Chamberlain Creek	19/Feb/2001 23:20	16.8	6.90	29.93
NF Big River above Chamberlain Creek	20/Feb/2001 03:04	31.4	41.40	96.65
NF Big River above Chamberlain Creek	20/Feb/2001 09:10	88.1	84.20	165.97
NF Big River above Chamberlain Creek	24/Feb/2001 13:31	22.4	69.90	78.58
NF Big River above Chamberlain Creek	05/Mar/2001 12:40	34.2	2.80	151.00
SITE NAME: GMA 3				
James Creek above NF Big River	26/Feb/2000 11:14	17.6	5.54	
James Creek above NF Big River	27/Feb/2000 09:22	37.3	34.60	

STATION	DATE	TURBIDITY (NTU)	SSC (MG/L)	DISCHARGE (CFS)
James Creek above NF Big River	25/Jan/2001 17:12	25.7	22.12	
James Creek above NF Big River	24/Feb/2001 14:04	19.3	12.60	
SITE NAME: GMA 4				
EF of NF Big River above NF Big River	25/Feb/2000 15:35	23.8	11.48	43.75
EF of NF Big River above NF Big River	27/Feb/2000 10:00	44	44.70	
EF of NF Big River above NF Big River	08/Jan/2001 08:58	5.39	13.61	
EF of NF Big River above NF Big River	25/Jan/2001 16:16	36.4	21.40	
EF of NF Big River above NF Big River	19/Feb/2001 23:34	19.7	19.40	
EF of NF Big River above NF Big River	20/Feb/2001 04:34	65.9	83.20	
EF of NF Big River above NF Big River	05/Mar/2001 16:00	30.9	29.70	46.80
SITE NAME: GMA 5				
NF Big River above Big River	25/Feb/2000 10:40	20.4	6.43	271.00
NF Big River above Big River	27/Feb/2000 11:00	72.8	101.92	
NF Big River above Big River	09/Jan/2001 14:24	4.7	1.05	
NF Big River above Big River	24/Jan/2001 17:02	25.2	1.93	
NF Big River above Big River	25/Jan/2001 14:24	15.4	11.50	
NF Big River above Big River	20/Feb/2001 00:00	13.8	10.80	
NF Big River above Big River	20/Feb/2001 06:11	50.3	77.60	
NF Big River above Big River	22/Feb/2001 15:07	49.5		468.00
NF Big River above Big River	05/Mar/2001 16:20	28.6	37.5	

Source: Graham Matthews & Associates, 2001

TABLE 61: TURBIDITY & SSC SITES, SOUTH FORK BIG RIVER SUBBASIN (GMA)

STATION	DATE	TURBIDITY (NTU)	SSC (MG/L)	DISCHARGE (CFS)
SITE NAME: GMA 7				
SF Big River above Big River	08/Jan/2001 08:18	2.33	1.91	
SF Big River above Big River	24/Jan/2001 15:00	106	40.61	67.80
SF Big River above Big River	25/Jan/2001 15:39	25.8	15.2	
SF Big River above Big River	20/Feb/2001 01:38	37.8	28.7	
SF Big River above Big River	20/Feb/2001 08:34	381.7	326.8	
SF Big River above Big River	22/Feb/2001 19:56	52.3	36.8	454.00
SF Big River above Big River	05/Mar/2001 17:10	55.6	45	
SITE NAME: GMA 8				
SF Big River above Daugherty Creek	18/Feb/2001 15:52	13.7	5.3	24.50
SF Big River above Daugherty Creek	19/Feb/2001 13:59	318	188.2	
SF Big River above Daugherty Creek	19/Feb/2001 22:08	42.0		
SF Big River above Daugherty Creek	20/Feb/2001 12:58	106.0		
SF Big River above Daugherty Creek	20/Feb/2001 21:50	52.4		
SF Big River above Daugherty Creek	23/Feb/2001 15:31	20.1	9.80	118.00
SF Big River above Daugherty Creek	04/Mar/2001 10:09	156.0	238.00	
SF Big River above Daugherty Creek	04/Mar/2001 15:10	811.0	892.00	
SF Big River above Daugherty Creek	08/Mar/2001 13:15	18.0	11.70	40.70
SITE NAME: GMA 14				
SF Big River below Daugherty Creek	19/Feb/2001 14:20	189.0	125.10	
SF Big River below Daugherty Creek	19/Feb/2001 22:44	44.0		
SF Big River below Daugherty Creek	20/Feb/2001 13:25	102.0		
SF Big River below Daugherty Creek	20/Feb/2001 22:25	59.6		
SF Big River below Daugherty Creek	23/Feb/2001 15:35	24.7	9.90	181.00

STATION	DATE	TURBIDITY (NTU)	SSC (MG/L)	DISCHARGE (CFS)
SF Big River below Daugherty Creek	04/Mar/2001 10:33	213.0	280.00	
SF Big River below Daugherty Creek	04/Mar/2001 14:30	777.0		
SF Big River below Daugherty Creek	08/Mar/2001 13:00	12.6	7.22	80.50
SITE NAME: GMA 9				
Daugherty Creek above SF Big River	18/Feb/2001 14:30	13.1	6.5	14.85
Daugherty Creek above SF Big River	19/Feb/2001 14:09	19.8	7.3	
Daugherty Creek above SF Big River	19/Feb/2001 22:25	23.0	16.40	
Daugherty Creek above SF Big River	20/Feb/2001 13:16	112.0	120.70	
Daugherty Creek above SF Big River	20/Feb/2001 22:08	65.6	44.90	
Daugherty Creek above SF Big River	23/Feb/2001 15:38	27.4	10.60	63.00
Daugherty Creek above SF Big River	04/Mar/2001 10:19	35.0	32.30	
Daugherty Creek above SF Big River	04/Mar/2001 14:55	158.0	141.50	
Daugherty Creek above SF Big River	08/Mar/2001 13:09	11.2	9.77	39.80

Source: Graham Matthews & Associates, 2001

TABLE 62: BULK SEDIMENT DATA SUMMARY (VOLUMETRIC), LITTLE NORTH FORK BIG RIVER (HTC)

Site	BIG 8	BIG 8	BIG 8	BIG 8
Sample Year	1996	1997	2000	2001
Source	HTC[1]	HTC[1]	HTC[1]	HTC[1]
SIEVE SIZE (mm)	**PERCENT PASSING SIEVE[2]**			
63	94.2%	97.7%	90.4%	88.8%
31.5	79.4%	81.8%	75.1%	72.5%
16	61.4%	61.4%	60.6%	59.8%
8	45.6%	43.4%	42.4%	47.1%
4	33.6%	31.8%	29.1%	36.6%
2	26.7%	25.8%	22.4%	29.1%
1	21.0%	22.2%	17.3%	23.4%
0.85	19.1%	21.0%	16.3%	21.0%

Source: Hawthorne Timber Company/Campbell Timberland Management (HTC)
[1] Values given are totals of 4 combined cores from each of the 2 riffles sampled (8 samples total).
[2] See accompanying Figure 80 and Figure 82, beginning on page 172.

TABLE 63: BULK SEDIMENT DATA SUMMARY (VOLUMETRIC), LOWER TWO LOG CREEK (HTC)

Site	BIG 4	BIG 4	BIG 4
Sample Year	1996	1997	2000
Source	HTC[1]	HTC[1]	HTC[1]
SIEVE SIZE (mm)	**PERCENT PASSING SIEVE[2]**		
63	100.0%	97.6%	93.4%
31.5	88.7%	79.3%	69.6%
16	69.4%	57.2%	50.2%
8	50.0%	38.3%	37.2%
4	34.3%	27.1%	30.0%
2	25.2%	22.9%	26.1%
1	20.1%	20.7%	22.6%
0.85	18.6%	19.9%	21.0%

Source: Hawthorne Timber Company/Campbell Timberland Management (HTC)
[1] Values given are totals of 4 combined cores from each of the 2 riffles sampled (8 samples total).
[2] See accompanying Figure 79 and Figure 81, beginning on page 172.

TABLE 64: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), LOWER BIG RIVER SUBBASIN (GMA)

Site	Big River Below Little North Fork Big River (GMA 12)
Sample Year	2000
Source	GMA[1]
SIEVE SIZE (mm)	**PERCENT PASSING SIEVE**
64	100.00%
45.3	98.63%
32	93.63%
22.6	84.60%
16	71.30%
11.2	57.13%
8	44.59%
5.6	34.91%
4	28.85%
2.83	23.88%
2	20.33%
1.4	17.42%
1	15.36%
0.85	14.54%
0.5	11.62%
0.25	2.62%
0.125	0.28%
0.063	0.07%
Pan	0.00%

Sources: Graham Matthews & Associates (GMA), 2001

[1] Values given are combined totals from 2 bulk samples taken along a single cross-section. Bulk samples do not include surface particles. Cross-sections were set in undisturbed locations where the substrate was characteristic of spawning areas.

TABLE 65: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), MIDDLE BIG RIVER SUBBASIN (GMA & MRC)

Site	Big River Above Two Log Creek (GMA 10)	Big River Below North Fork Big River (MRC S5)	Big River Below South Fork Big River (GMA 11)
Sample Year	2000	2000	2000
Source	GMA[1]	MRC[2]	GMA[1]
SIEVE SIZE (mm)	**PERCENT PASSING SIEVE**		
128			100.00%
90.5	100.00%		94.94%
64	98.47%		89.18%
45.3	90.83%		79.05%
45		77%	
32	81.92%		70.51%
22.6	70.02%		60.12%
22.4		55%	
16	56.98%		49.64%
11.2	44.95%	37%	39.20%
8	35.11%		30.45%
5.6	27.41%	25%	23.95%
4	21.95%	20%	19.94%
2.83	17.31%		16.54%
2	14.24%	14%	13.95%
1.4	12.23%		11.58%
1	10.87%		9.75%
0.85	10.31%	10%	8.91%
0.5	7.64%		5.40%
0.25	0.97%		0.81%
0.125	0.20%		0.14%
0.063	0.05%		0.06%
Pan	0.00%		0.00%

Sources: Graham Matthews & Associates (GMA), 2001; Mendocino Redwoods Company (MRC), 2000.

[1] Values given are combined totals from 2 bulk samples taken along a single cross-section. Bulk samples do not include surface particles. Cross-sections were set in undisturbed locations where the substrate was characteristic of spawning areas.

[2] Values given are totals of combined cores from 4 pool tailouts. Bulk samples include surface and subsurface particles.

TABLE 66: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), NORTH FORK BIG RIVER (GMA & MRC)

Site	Chamberlain Creek Above North Fork Big River (GMA 1)	East Branch North Fork Big River (GMA 4)	East Branch North Fork Big River (MRC S4)	North Fork Big Above Big River (GMA 5)	North Fork Big Above Chamberlain Creek (GMA 2)	North Fork Big Above James Creek (GMA 13)
Sample Year	2000	2000	2000	2000	2000	2000
Source	GMA[1]	GMA[1]	MRC[2]	GMA[1]	GMA[1]	GMA[1]
SIEVE SIZE (mm)	**PERCENT PASSING SIEVE**					
128	100.00%	100.00%			100.00%	100.00%
90.5	97.75%	89.12%		100.00%	99.17%	97.51%
64	92.64%	85.81%		97.30%	96.86%	85.81%
45.3	85.15%	78.38%		91.31%	87.29%	69.33%
45			80%			
32	77.36%	68.14%		78.68%	76.78%	50.48%
22.6	69.35%	59.23%		64.80%	68.62%	37.86%
22.4			56%			
16	60.04%	51.55%		51.08%	61.42%	28.81%
11.2	49.74%	44.77%	38%	39.64%	53.66%	22.36%
8	40.05%	38.45%		30.71%	45.81%	17.73%
5.6	32.01%	32.42%	25%	24.02%	38.35%	13.52%
4	26.42%	27.37%	21%	19.32%	32.48%	10.25%
2.83	21.37%	22.39%		15.05%	26.40%	7.35%
2	17.22%	18.39%	14%	11.91%	21.04%	5.42%
1.4	13.57%	14.78%		9.35%	16.05%	4.18%
1	10.21%	11.97%		7.53%	11.98%	3.55%
0.85	8.80%	10.78%	10%	6.82%	10.34%	3.34%
0.5	4.68%	6.50%		4.20%	5.33%	2.63%
0.25	1.01%	1.31%		1.17%	0.96%	0.96%
0.125	0.21%	0.26%		0.37%	0.19%	0.22%
0.063	0.08%	0.10%		0.07%	0.06%	0.08%
Pan	0.00%	0.00%		0.00%	0.00%	0.00%

Sources: Graham Matthews & Associates (GMA), 2001; Mendocino Redwoods Company (MRC), 2000.

[1] Values given are combined totals from 2 bulk samples taken along a single cross-section. Bulk samples do not include surface particles. Cross-sections were set in undisturbed locations where the substrate was characteristic of spawning areas.

[2] Values given are totals of combined cores from 4 pool tailouts. Bulk samples include surface and subsurface particles.

TABLE 67: BULK SEDIMENT DATA SUMMARY (GRAVIMETRIC), SOUTH FORK BIG RIVER (GMA & MRC)

Site	Daugherty Creek Above South Fork Big River (GMA 9)	Daugherty Creek Above South Fork Big River (MRC S1)	Lower Ramon Creek (MRC S2)	South Fork Big River Above Big River (GMA 7)	South Fork Big River Above Big River (MRC S3)	South Fork Big River Above Daugherty Creek (GMA 8)
Sample Year	2000	2000	2000	2000	2000	2000
Source	GMA[1]	MRC[2]	MRC[2]	GMA[1]	MRC[2]	GMA[1]
SIEVE SIZE (mm)	**PERCENT PASSING SIEVE**					
256	100.00%					
180	93.22%					
128	93.22%					
90.5	76.59%			100.00%		100.00%
64	69.81%			95.35%		93.80%
45.3	63.33%			89.44%		93.45%
45		80%	81%		80%	
32	56.57%			80.99%		86.40%
22.6	49.97%			71.15%		76.75%
22.4		60%	62%		58%	
16	44.16%			62.23%		66.69%
11.2	38.37%	44%	43%	52.79%	40%	57.48%
8	32.49%			44.48%		48.28%
5.6	26.65%	32%	29%	36.91%	29%	39.97%
4	22.00%	27%	24%	31.10%	24%	32.57%
2.83	17.39%			25.91%		27.11%
2	13.92%	20%	17%	21.95%	16%	21.77%
1.4	11.16%			18.49%		17.54%
1	9.22%			14.49%		14.10%
0.85	8.39%	15%	12%	12.38%	10%	11.31%
0.5	5.32%			4.81%		10.16%
0.25	1.13%			0.73%		6.35%
0.125	0.24%			0.21%		1.52%
0.063	0.09%			0.09%		0.29%
Pan	0.00%			0.00%		0.10%

Sources: Graham Matthews & Associates (GMA), 2001; Mendocino Redwoods Company (MRC), 2000.

[1] Values given are combined totals from 2 bulk samples taken along a single cross-section. Bulk samples do not include surface particles. Cross-sections were set in undisturbed locations where the substrate was characteristic of spawning areas.

[2] Values given are totals of combined cores from 4 pool tailouts. Bulk samples include surface and subsurface particles.

TABLE 68: STREAM BED PERMEABILITY, MIDDLE BIG RIVER (MRC)

Site	Big River Below North Fork Big River (MRC S5)	
Sample Year	2000	
Pool Tail-out	**Grid Point**	**Median Permeability (cm/hr)**
1	1	8207.0
	3	1795.2
	5	3493.7[1]
	10	2535.8
	12	3622.5
2	2	3662.8[1]
	6	4532.2
	7	462.9
	12	3348.8
3	1	1577.5
	2	4001.4
	4	2060.6
	11	1616.0
4	1	2158.0
	7	2232.7
	8	3569.0[1]
	9	12267.4
5	1	2133.1
	4	38014.0
	8	43533.5
	10	47891.0
6	2	394.5[1]
	4	640.0
	7	615.8
	8	0.8
	10	515.2

Source: Mendocino Redwood Company (MRC), 2000.
[1] Bulk sediment sampling site. See Table 65 on page 236.

TABLE 69: STREAM BED PERMEABILITY, NORTH FORK BIG RIVER (MRC)

Site	East Branch North Fork Big River (MRC S4)	
Sample Year	2000	
Pool Tail-out	**Grid Point**	**Median Permeability (cm/hr)**
1	4	542.3
	7	368.2
2	4	278.6
	8	209.0
3	5	1746.2[1]
	7	564.7
	11	736.3
4	1	458.4
	7	747.9
5	3	4463.1[1]
	5	4625.0
6	5	286.8[1]
	10	1683.5
	7	0.9
7	2	994.4[1]
	7	1748.3
	10	15549.3
8	3	887.8
	4	2460.8
	12	173.7
9	1	9288.1
	2	10644.0
	7	4419.7
12	9	1881.8
	11	4738.2

Source: Mendocino Redwood Company, LLC. 2000.
[1] Bulk sediment sampling site. See Table 66 on page 237.

TABLE 70: STREAM BED PERMEABILITY, SOUTH FORK BIG RIVER (MRC)

Site	Daugherty Creek Above South Fork Big River (MRC S1)		South Fork Big River Above Big River (MRC S3)			Lower Ramon Creek (MRC S2)		
Sample Year	2000		2000			2000		
Pool Tail-out	Grid Point	Median Permeability (cm/hr)	Pool Tail-out	Grid Point	Median Permeability (cm/hr)	Pool Tail-out	Grid Point	Median Permeability (cm/hr)
1	1	3684.6	1	2	15300.2	1	7	0.9
	3	416.1		3	4095.5		9	0.9
	7	1384.0		6	6583.5		11	171.0
	4	1904.6		11	22101.8	2	2	684.7[1]
	11	758.7[1]		12	1936.6		4	288.8
2	3	313.6	2	1	2008.6		10	323.8
	4	685.2		5	18770.5		11	385.0
	8	639.3[1]		7	8881.0	3	3	2170.0
	10	593.5		12	2029.4		5	1526.9[1]
	12	525.9	3	1	5993.6		6	1382.5
3	1	2537.5		3	596.4		9	1207.5
	5	538.1		6	632.7	4	2	253.7[1]
	7	153.1		8	805.5		7	127.3
	8	140.0	4	8	805.5[1]		12	5384.5
	9	1155.0[2]		1	316.0	5	1	743.2
4	8	50.2[1]		3	0.9		3	0.9
	1	273.9		6	320.4		8	0.9
	7	744.9	5	2	7956.6	6	2	0.9
	11	1294.8		3	9709.9		9	0.9
	12	722.1		5	6198.9		12	0.9
	2	1000.2[1]		12	9856.8	7	1	1829.7
	5	967.0	6	5	2064.8[1]		7	265.1
	6	421.2		3	2763.5		9	203.1
	11	539.5		6	789.9	8	2	0.9
	12	456.5[3]		8	2371.9		5	0.9
				11	28925.0		6	0.9

Source: Mendocino Redwood Company, LLC. 2000.
[1] Bulk sediment sampling site. See Table 67 on page 238.
[2] Located below a large landslide.
[3] Many redds noted in the area.