APPENDIX B
WATER QUALITY DATA

Table B.1 SWQB Red River (Rio Grande to Placer Creek) Water Quality Data

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28REDRIV005.3	5/10/99	0.3	271	
28REDRIV005.3	5/10/99*	0.11	307	203
28REDRIV005.3	5/11/99	0.2	222	149
28REDRIV005.3	5/11/99*	0.26	215	
28REDRIV005.3	5/12/99	0.31	59	47.9
28REDRIV005.3	5/12/99*	0.32	66	
28REDRIV005.3	5/13/99	0.23	56	39.7
28REDRIV005.3	5/13/99*	0.27	55	
28REDRIV005.3	8/17/99	0.14	7	4.3
28REDRIV005.3	8/17/99*	0.13	4	
28REDRIV005.3	8/18/99	0.16	8	4.16
28REDRIV005.3	8/18/99*	0.15	6	
28REDRIV005.3	10/25/99	0.07	<3	4.4
28REDRIV005.3	10/25/99*	0.07	<3	
28REDRIV005.3	10/26/99	0.06	6	3.64
28REDRIV005.3	10/26/99*	0.06	<3	
28REDRIV005.3	10/27/99	0.07	<3	3.65
28REDRIV005.3	10/27/99*	0.07	3	
28REDRIV005.3	10/28/99	0.1	<3	2.89
28REDRIV005.3	10/28/99*	0.09	5	
28REDRIV009.0	5/10/99	0.3	97	208
28REDRIV009.0	5/11/99	0.22	340	221
28REDRIV009.0	5/12/99	0.36	62	40.4
28REDRIV009.0	5/13/99	0.47	60	38.7
28REDRIV009.0	8/17/99	0.17	10	19.3
28REDRIV009.0	8/18/99	0.16	4	5.89
28REDRIV009.0	10/25/99	0.08	5	4.45
28REDRIV009.0	10/26/99	0.07	4	3.03
28REDRIV009.0	10/27/99	0.07	<3	5.38
28REDRIV009.0	10/28/99	0.09	6	9.38
28REDRIV009.2	5/10/99	0.22	277	301
28REDRIV009.2	5/11/99	0.45	298	201
28REDRIV009.2	5/12/99	0.58	68	38.3
28REDRIV009.2	5/13/99	0.35	58	43.4
28REDRIV009.2	8/17/99	0.21	11	4.82
28REDRIV009.2	8/18/99	0.2	8	6.45
28REDRIV009.2	10/25/99	0.11	4	8.06
28REDRIV009.2	10/26/99	0.08	5	4.47
28REDRIV009.2	10/27/99	0.09	4	5.59
28REDRIV009.2	10/28/99	0.11	8	5.21
28REDRIV009.8	5/10/99	0.3	190	279
28REDRIV009.8	5/11/99	0.29	250	158
28REDRIV009.8	5/12/99	0.35	95	48.8

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28REDRIV009.8	5/13/99	0.5	65	43.3
28REDRIV009.8	8/17/99	0.24	9	5.68
28REDRIV009.8	8/18/99	0.22	9	5.79
28REDRIV009.8	10/25/99	0.11	5	4.52
28REDRIV009.8	10/26/99	0.1	6	4.18
28REDRIV009.8	10/27/99	0.1	<3	4.38
28REDRIV009.8	10/28/99	0.11	8	5.8
28REDRIV014.0	5/10/99	0.33	123	141
28REDRIV014.0	5/11/99	0.6	91	82
28REDRIV014.0	5/12/99	0.42	65	38.2
28REDRIV014.0	5/13/99	0.37	43	38.6
28REDRIV014.0	8/17/99	0.31	11	6.68
28REDRIV014.0	8/18/99	0.26	9	6.42
28REDRIV014.0	10/25/99	0.17	12	6.02
28REDRIV014.0	10/26/99	0.15	4	4.94
28REDRIV014.0	10/27/99	0.15	<3	4.84
28REDRIV014.0	10/28/99	0.17	9	5.02
28REDRIV015.0	5/10/99	0.15	111	147
28REDRIV015.0	5/10/99*	0.29	114	
28REDRIV015.0	5/11/99	0.14	134	87
28REDRIV015.0	5/11/99*	0.32	123	
28REDRIV015.0	5/12/99	0.19	59	36.9
28REDRIV015.0	5/12/99*	0.42	51	
28REDRIV015.0	5/13/99	0.35	51	39.8
28REDRIV015.0	5/13/99*	0.22	50	
28REDRIV015.0	8/17/99	0.29	10	6.07
28REDRIV015.0	8/17/99*	0.28	9	
28REDRIV015.0	8/18/99	0.28	10	6.64
28REDRIV015.0	8/18/99*	0.31	8	
28REDRIV015.0	10/25/99	0.17	6	6.53
28REDRIV015.0	10/25/99*	0.16	5	
28REDRIV015.0	10/26/99	0.15	11	6.82
28REDRIV015.0	10/26/99*	0.15	7	
28REDRIV015.0	10/27/99	0.15	6	6.19
28REDRIV015.0	10/27/99*	0.16	7	
28REDRIV015.0	10/28/99	0.19	7	5.68
28REDRIV015.0	10/28/99*	0.18	8	
28REDRIV016.2	5/10/99	0.23	119	142
28REDRIV016.2	5/11/99	0.29	55	77
28REDRIV016.2	5/12/99	0.4	62	37.1
28REDRIV016.2	5/13/99	0.47	49	31.9
28REDRIV016.2	8/17/99	0.31	7	4.89
28REDRIV016.2	8/18/99	0.32	5	6.11
28REDRIV016.2	10/25/99	0.22	<3	2.81
28REDRIV016.2	10/26/99	0.21	3	4.11

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28REDRIV016.2	10/27/99	0.2	4	4.5
28REDRIV016.2	10/28/99	0.21	5	3.41
28REDRIV017.1	5/10/99	0.5	191	130
28REDRIV017.1	5/11/99	0.25	526	187
28REDRIV017.1	5/12/99	0.5	61	35
28REDRIV017.1	5/13/99	0.47	45	30.8
28REDRIV017.1	8/17/99	0.25	<3	6.1
28REDRIV017.1	8/18/99	0.26	9	6.68
28REDRIV017.1	10/25/99	0.13	<3	4.89
28REDRIV017.1	10/26/99	0.13	<3	2.93
28REDRIV017.1	10/27/99	0.13	3	2.99
28REDRIV017.1	10/28/99	0.13	6	2.92
28REDRIV019.1	5/10/99	0.7	130	147
28REDRIV019.1	5/11/99	0.46	57	88.8
28REDRIV019.1	5/12/99	0.56	28	40.4
28REDRIV019.1	5/13/99	0.55	27	41.8
28REDRIV019.1	8/17/99	0.25	6	3.98
28REDRIV019.1	8/18/99	0.27	8	4.95
28REDRIV019.1	10/25/99	0.11	<3	2.95
28REDRIV019.1	10/26/99	0.09	5	2.46
28REDRIV019.1	10/27/99	0.11	<3	2.82
28REDRIV019.1	10/28/99	0.3	<3	3.19
28REDRIV019.5	5/10/99	0.45	147	128
28REDRIV019.5	5/11/99	0.8^{+}	68	69
28REDRIV019.5	5/12/99	0.44	35	39.6
28REDRIV019.5	5/13/99	0.6	27	42
28REDRIV019.5	8/17/99	0.17	4	4.67
28REDRIV019.5	8/18/99	0.18	5	6.52
28REDRIV019.5	10/25/99	0.09	<3	3.26
28REDRIV019.5	10/26/99	0.09	<3	2.69
28REDRIV019.5	10/27/99	0.1	4	3.06
28REDRIV019.5	10/28/99	0.13	3	3.8
28REDRIV020.2	5/10/99	0.7	136	185
28REDRIV020.2	5/11/99	0.5	78	92.7
28REDRIV020.2	5/12/99	0.47	32	51.8
28REDRIV020.2	5/13/99	0.49	35	48.6
28REDRIV020.2	8/17/99	0.2	7	6.56
28REDRIV020.2	8/18/99	0.21	10	6.99
28REDRIV020.2	10/25/99	0.13	6	5.16
28REDRIV020.2	10/26/99	0.12	9	3.76
28REDRIV020.2	10/27/99	0.13	<3	3.65
28REDRIV020.2	10/28/99	0.14	<3	3.67
28REDRIV020.7	5/10/99	0.4	168	154
28REDRIV020.7	5/11/99	0.6	75	NS
28REDRIV020.7	5/12/99	0.45	40	52.2

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28REDRIV020.7	5/13/99	0.62	36	47.7
28REDRIV020.7	8/17/99	0.19	14	7.38
28REDRIV020.7	8/18/99	0.22	9	6.21
28REDRIV020.7	10/25/99	0.12	4	4.54
28REDRIV020.7	10/26/99	0.1	<3	3.66
28REDRIV020.7	10/27/99	0.1	<3	3.6
28REDRIV020.7	10/28/99	0.15	5	3.75
28REDRIV024.4	5/10/99	0.6	138	132
28REDRIV024.4	5/11/99	1^{+}	76	81.2
28REDRIV024.4	5/12/99	0.72	31	43.5
28REDRIV024.4	5/13/99	0.64	31	41.9
28REDRIV024.4	8/17/99	0.19	6	7.3
28REDRIV024.4	8/18/99	0.22	6	6.02
28REDRIV024.4	10/25/99	0.12	3	11.2
28REDRIV024.4	10/26/99	0.11	<3	3.7
28REDRIV024.4	10/27/99	0.12	4	4.64
28REDRIV024.4	10/28/99	0.13	<3	3.71
28REDRIV025.3	5/10/99	0.7	266	129
28REDRIV025.3	5/11/99	0.7	66	73.4
28REDRIV025.3	5/12/99	0.7	26	40.7
28REDRIV025.3	5/13/99	0.57	29	43.5
28REDRIV025.3	8/17/99	0.22	16	18.1
28REDRIV025.3	8/18/99	0.25	9	4.39
28REDRIV025.3	10/25/99	0.18	4	2.24
28REDRIV025.3	10/26/99	0.19	7	2.42
28REDRIV025.3	10/27/99	0.14	<3	2.83
28REDRIV025.3	10/28/99	0.19	3	2.46
28REDRIV026.7	5/10/99	0.6	154	92.2
28REDRIV026.7	5/11/99	0.9^{+}	44	66.5
28REDRIV026.7	5/12/99	1^{+}	22	26.3
28REDRIV026.7	5/13/99	1^{+}	19	41.5
28REDRIV026.7	8/17/99	0.11	9	5.82
28REDRIV026.7	8/18/99	0.13	<3	2.99
28REDRIV026.7	10/25/99	0.11	<3	2.11
28REDRIV026.7	10/26/99	0.09	<3	3.09
28REDRIV026.7	10/27/99	0.1	<3	2.33
28REDRIV026.7	10/28/99	0.11	<3	2.15
28REDRIV026.9	5/10/99	0.3	137	104
28REDRIV026.9	5/11/99	0.69	41	57.4
28REDRIV026.9	5/12/99	0.6	14	22.1
28REDRIV026.9	5/13/99	0.73	24	32.4
28REDRIV026.9	8/17/99	0.11	6	5.46
28REDRIV026.9	8/18/99	0.13	6	3.2
28REDRIV026.9	10/25/99	0.11	<3	1.86
28REDRIV026.9	10/26/99	0.1	<3	2.91

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28REDRIV026.9	10/27/99	0.1	<3	1.88
28REDRIV026.9	10/28/99	0.1	<3	2.41
28REDRIV028.5	5/10/99	1.5+	111	100
28REDRIV028.5	5/11/99	0.47	78	52
28REDRIV028.5	5/12/99	0.31	32	22
28REDRIV028.5	5/13/99	0.5	24	23.6
28REDRIV028.5	8/17/99	0.1	6	7.93
28REDRIV028.5	8/17/99*	0.1	<3	
28REDRIV028.5	8/18/99	0.13	3	2.08
28REDRIV028.5	8/18/99*	0.13	3	
28REDRIV028.5	10/25/99	0.11	<3	1.64
28REDRIV028.5	10/25/99*	0.11	3	
28REDRIV028.5	10/26/99	0.1	<3	1.92
28REDRIV028.5	10/26/99*	0.1	<3	
28REDRIV028.5	10/27/99	0.14	<3	2.18
28REDRIV028.5	10/27/99*	0.1	<3	
28REDRIV028.5	10/28/99	0.11	<3	3.18
28REDRIV028.5	10/28/99*	0.11	3	
28REDRIV031.1	5/10/99	1.5+	247	122
28REDRIV031.1	5/11/99	1.1+	59	61
28REDRIV031.1	5/12/99	1.4+	31	22.5
28REDRIV031.1	5/13/99	0.74	36	27
28REDRIV031.1	8/17/99	0	<3	1.72
28REDRIV031.1	8/18/99	0.03	<3	1.39
28REDRIV031.1	10/25/99	0.02	3	1.11
28REDRIV031.1	10/26/99	0.02	<3	0.63
28REDRIV031.1	10/27/99	0.03	<3	0.68
28REDRIV031.1	10/28/99	0.03	<3	0.48

* Duplicate sample.
\+ Exceedence of the acute aluminum standard of 0.75 mg/L.

Table B.2 SWQB Bitter Creek (Red River to headwaters) Water Quality Data

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28BITTER000.1	5/10/99	0.39	300	231
28BITTER000.1	5/10/99*		292	
28BITTER000.1	5/11/99	1.2+	112	85.2
28BITTER000.1	5/12/99	1.8+	56	40.3
28BITTER000.1	5/13/99	0.8+	66	48.3
28BITTER000.1	8/17/99	0.04	9	15.5
28BITTER000.1	8/18/99	0.06	4	6.91
28BITTER000.1	10/25/99	0.04	18	15
28BITTER000.1	10/26/99	0.33	24	15.3
28BITTER000.1	10/27/99	0.04	13	8.34
28BITTER000.1	10/28/99	0.03	9	16

* Duplicate sample.
\+ Exceedence of the acute aluminum standard of 0.75 mg/L.

Table B.3 SWQB Placer Creek (Red River to headwaters) Water Quality Data

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28PLACER000.2	5/10/99	1.1+	7	21.8
28PLACER000.2	5/11/99	1+	9	18.3
28PLACER000.2	5/12/99	1.4+	9	15.4
28PLACER000.2	5/13/99	0.8+	<3	12.8
28PLACER000.2	8/17/99	0	<3	3.15
28PLACER000.2	8/18/99	0.03	6	1.79
28PLACER000.2	10/25/99	0.02	<3	1.47
28PLACER000.2	10/26/99	0.03	<3	2.74
28PLACER000.2	10/27/99	0.03	<3	0.45
28PLACER000.2	10/28/99	0.02	<3	3.1

Table B.4 SWQB Pioneer Creek (Red River to headwaters) Water Quality Data

Station ID	Date	Dissolved Aluminum (mg/L)	TSS (mg/L)	Turbidity (NTU)
28PIONEE000.7	5/10/99	0.08	17	30.3
28PIONEE000.7	5/11/99		35	26.5
28PIONEE000.7	5/12/99		12	13.6
28PIONEE000.7	5/13/99		4	10.3
28PIONEE000.7	5/25/99	0.09		16.9
28PIONEE000.7	5/26/99	0.08		7.92
28PIONEE000.7	5/27/99	0.1		5.44
28PIONEE000.7	5/28/99	0.08	7	5.65
28PIONEE000.7	8/17/99	0.05	16	8.52
28PIONEE000.7	8/18/99	0.07	3	3.4
28PIONEE000.7	10/25/99	0.06	3	2.76
28PIONEE000.7	10/26/99	0.05	8	6.36
28PIONEE000.7	10/27/99	0.07	8	1.69
28PIONEE000.7	10/28/99	0.05	3	9.11

Table B.5 USGS Instream Water Analyses for the March 30 – April 1, 2001 Low-Flow Tracer Study (McCleskey et al 2003)

Sample Identification	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)	Sample Identification	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)
RRU-0	0.011	0.050	RRM-7500A	0.22	0.58
RRU-200	0.013	0.054	RRM-7500B	0.20	0.40
RRU-324	0.020	0.055	RRM-7800	0.23	0.61
RRU-375	0.011	0.052	RRM-8100	0.22	0.65
RRU-518	0.024	0.071	RRM-8400	0.23	0.66
RRU-700	0.087	0.21	RRM-8700	0.22	0.68
RRU-800A	0.12	0.26	RRM-9000	0.23	0.61
RRU-800B	0.12	0.26	RRM-9300	0.23	0.63
RRU-900	0.12	0.23	RRM-9600	0.22	0.62
RRU-1040	0.14	0.28	RRM-9900	0.21	0.62
RRU-1100	0.13	0.32	RRM-10200	0.21	0.66
RRU-1200	0.14	0.34	RRM-10300	0.20	0.62
RRU-1300	0.16	0.33	RRM-10500	0.21	0.64
RRU-1640	0.14	0.33	RRM-10644	0.17	0.64
RRU-1765	0.14	0.34	RRM-10800	0.17	0.62
RRU-1975	0.14	0.36	RRM-11000	0.18	0.65
RRU-2184	0.14	0.37	RRM-11300	0.18	0.62
RRU-2404	0.13	0.36	RRM-11600	0.19	0.67
RRU-2693	0.14	0.33	RRM-11963	0.17	0.68
RRU-3052A	0.12	0.39	RRM-12200	0.17	0.66
RRU-3052B	0.15	0.35	RRM-12515A	0.18	0.69
RRU-3350A	0.15	0.35	RRM-12515B	0.18	0.73
RRU-3350B	0.15	0.33	RRM-12600	0.19	0.69
RRU-3638	0.15	0.32	RRM-12900	0.18	0.75
RRU-3900	0.16	0.34	RRM-13194	0.19	0.75
RRU-4200	0.14	0.31	RRL-12515	0.21	0.88
RRU-4500	0.14	0.31	RRL-12600	0.23	1.1
RRU-4800	0.14	0.33	RRL-12900	0.21	0.90
RRU-4900	0.15	0.33	RRL-13194	0.23	0.87
RRU-5200	0.14	0.30	RRL-13300	0.20	0.83
RRU-5300	0.15	0.31	RRL-13600	0.22	0.92
RRU-5735	0.14	0.32	RRL-13700A	0.23	0.91
RRM-5756	0.12	0.36	RRL-13700B	0.26	0.88
RRM-6000	0.13	0.33	RRL-13900	0.26	1.2
RRM-6175	0.13	0.32	RRL-14142	0.24	1.1
RRM-6300	0.14	0.32	RRL-14400	0.26	1.2
RRM-6600	0.11	0.31	RRL-14700	0.26	1.2
RRM-6819	0.12	0.61	RRL-14790	0.26	1.2
RRM-7100	0.13	0.34	RRL-14958	0.25	1.3
RRM-7200	0.10	0.32	RRL-15221	0.23	1.3
RRM-7295	0.21	0.40	RRL-15295	0.20	1.2
RRM-7395	0.21	0.57	RRL-15373	0.19	1.3

Table B.5 USGS Instream Water Analyses for the March 30 – April 1, 2001 Low-Flow Tracer Study (McCleskey et al 2003) (continued)

Sample Identification	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)
RRL-15600	0.15	1.4
RRL-15765	0.15	1.7
RRL-16100	0.22	1.8
RRL-16400	0.20	2.1
RRL-16700	0.19	2.2
RRL-17012	0.19	2.2
RRL-17300	0.22	1.9
RRL-17480	0.13	2.1
RRL-17655	0.20	2.2
RRL-17700A	0.16	2.0
RRL-17700B	0.15	2.3
RRL-18000	0.19	1.7
RRL-18300	0.19	1.8
RRL-18600	0.18	1.8
RRL-18900	0.22	1.8
RRL-19170	0.22	1.9
RRL-19500	0.22	1.9
RRL-19780	0.21	1.8

RRU – Red River Upper
RRM – Red River Middle
RRL – Red River Lower

Table B.6 USGS Bank Water Analyses for the March 30 – April 1, 2001 Low-Flow Tracer Study (McCleskey et al 2003)

Sample Identification	Description	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)	Sample Identification	Description	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)
RRU-275	RBI	0.010	0.023	RRM-7352	RBI	0.31	0.71
RRU-340	LBI	0.007	0.13	RRM-7400	LBI	12	12
RRU-380	RBI	0.009	0.034	RRM-7457	RBI	1.8	3.9
RRU-487	RBI	0.009	1.0	RRM-7588	LBI	0.31	0.90
RRU-511	RBI	0.32	0.33	RRM-7615	RBI	9.3	9.0
RRU-530	RBI	6.9	6.9	RRM-10360	RBI	0.35	0.63
RRU-542	RBI	3.3	7.6	RRM-10519	RBI	0.28	0.28
RRU-570	RBI	6.8	7.8	RRM-10572	LBI	0.044	0.051
RRU-572	RBI	6.6	6.8	RRM-12287	LBI	2.5	3.3
RRU-705	RBI	5.7	8.6	RRM-12308	RBI	8.6	8.6
RRU-750	LBI	0.35	1.4	RRM-13210	LBI	0.031	0.042
RRU-758	RBI	8.7	11	RRL-13675	RBI	39	39
RRU-834	RBI	0.36	1.8	RRL-13750	LBI	31	31
RRU-1050	RBI	0.038	1.6	RRL-13751	RBI	42	43
RRU-1117	RBI	0.039	0.053	RRL-14570	RBI	5.0	5.5
RRU-1463	RBI	0.017	0.73	RRL-14800	RBI	2.6	6.6
RRU-1510	RBI	4.6	5.9	RRL-14973	RBI	1.5	1.5
RRU-1658	RBI	0.014	0.031	RRL-15000	LBI	0.70	1.6
RRU-2195	LBI	0.060	0.33	RRL-15044	RBI	0.45	0.49
RRU-2406	RBI	0.025	0.32	RRL-15264	RBI	<0.06	0.10
RRU-2830	RBI	0.033	0.16	RRL-15331	LBI	0.029	0.21
RRU-4100	LBI	0.27	0.47	RRL-15356	RBI	0.057	0.084
RRU-5652	LBI	0.096	0.21	RRL-15408	RBI	15	15
RRM-6214	RBI	0.013	0.021	RRL-15500	LBI	0.098	1.1
RRM-6343	LBI	0.009	0.010	RRL-15687	RBI	0.36	0.37
RRM-6971	RBI	98	98	RRL-17574	RBI	33	34
RRM-7010	Inflow	0.034	0.11	RRL-17595	RBI	90	90
RRM-7240	RBI	14	14	RRL-17670	RBI	100	100
RRM-7255	LBI	0.093	2.1	RRL-17749	LBI	0.072	0.32
RRM-7270	RBI	13	14	RRL-18160	LBI	11	12
RRM-7300	LBI	9.5	10	RRL-19040	RBI	28	29

RBI – Right-band Inflow
LBI – Left-bank Inflow
RRU – Red River Upper
RRM – Red River Middle
RRL – Red River Lower

Table B.7 USGS Instream Water Analyses for the August 17 – 24, 2002 Snowmelt Tracer Study (McCleskey et al 2003)

Sample Identification	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)	Sample Identification	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)
RRH-0	0.050	0.12	RRF-7800	0.19	0.98
RRH-700	0.11	0.22	RRF-8400	0.16	0.98
RRH-1200	0.21	0.42	RRF-10644	0.18	0.89
RRH-3052	0.12	0.46	RRC-13300	0.18	0.68
RRH-3300	0.18	0.48	RRC-13465	0.14	0.70
RRH-3380	0.15	0.42	RRC-13595	0.15	0.67
RRH-3638	0.16	0.43	RRC-13700	0.14	0.64
RRH-3900	0.15	0.43	RRC-13900	0.13	0.57
RRH-4200	0.15	0.45	RRC-14142A	0.12	0.66
RRH-4500	0.14	0.50	RRC-14142B	0.15	0.66
RRH-4800	0.14	0.51	RRC-14400	0.20	0.64
RRH-4900	0.19	0.51	RRC-14700	0.13	0.66
RRH-5200A	0.14	0.52	RRC-14790	0.14	0.59
RRH-5200B	0.14	0.47	RRC-14958	0.14	0.63
RRH-5300	---	0.55	RRC-15084	0.14	0.56
RRF-5735	0.15	0.45	RRC-15221	0.13	0.65
RRF-6000	0.19	0.44	RRC-15373	0.092	0.58
RRF-6175	0.20	0.39	RRC-15547	0.15	0.74
RRF-6300	0.14	0.34	RRC-15600	0.12	0.71
RRF-6600A	0.16	0.36	RRC-15765	0.11	0.81
RRF-6600B	0.13	0.35	RRC-15950	0.14	0.76
RRF-6819	0.16	0.33	RRC-16100	0.15	0.75
RRF-6940	0.14	0.33	RRC-16400	0.13	0.79
RRF-6948	0.18	0.42	RRC-16700	0.16	0.77
RRF-7100A	0.14	0.30	RRC-17012	0.17	0.74
RRF-7100B	0.14	0.29	RRC-17230	0.18	0.91
RRF-7200	0.17	0.30	RRC-17300	0.18	1.0
RRF-7295	0.27	0.51	RRC-17480	0.17	1.0
RRF-7377	0.18	0.82	RRC-17655	0.13	1.8
RRF-7500A	0.14	0.96	RRC-17700A	0.12	2.0
RRF-7500B	0.16	0.99	RRC-17700B	0.13	1.9
RRF-7700	0.13	0.99	RRC-19780	0.20	2.4

RRH – Red River at Hottentot Creek
RRF – Red River at Fawn Lakes
RRC – Red River at Columbine Creek

Table B.8 USGS Bank Water Analyses for the August 17 – 24, 2002 Snowmelt Tracer Study (McCleskey et al 2003)

Sample Identification	Description	Dissolved Aluminum (mg/L)	Total Aluminum (mg/L)
RRF-6209	LBI	0.069	0.80
RRF-6214	RBI	0.046	0.13
RRF-6301	RBI	0.067	0.12
RRF-6343	LBI	0.052	0.070
RRF-7150	RBI	0.10	0.42
RRF-7240	RBI	13	13
RRF-7270	RBI	12	12
RRF-7297	RBI	13	14
RRF-7300	LBI	7.8	8.6
RRF-7320	RBI	15	15
RRF-7352	RBI	0.49	0.97
RRF-7383	LBI	15	15
RRF-7457	RBI	9.4	9.9
RRF-7588	RBI	0.11	0.15
RRF-7615	RBI	6.4	6.5
RRC-14973	RBI	1.6	1.6
RRC-15044	RBI	0.31	0.74
RRC-15087	LBI	0.089	0.12
RRC-15141	LBI	0.033	0.14
RRC-15264	RBI	0.12	1.4
RRC-15408	RBI	18	20
RRC-15507	RBI	110	110
RRC-15567	LBI	0.029	0.022
RRC-15687	RBI	0.17	0.41
RRC-15737	RBI	17	18
RRC-17270	RBI	33	34
RRC-17288	LBI	34	36
RRC-17525	RBI	110	120
RRC-17574	RBI	38	37
RRC-17595	RBI	110	110
RRC-17670	RBI	110	120

RBI – Right-band Inflow
LBI – Left-bank Inflow
RRH – Red River at Hottentot Creek
RRF – Red River at Fawn Lakes
RRC – Red River at Columbine Creek