Appendix A

State of Idaho water quality standards

Table A-1. State of Idaho water quality numeric standards (from Idaho Department of Environmental Quality Water Quality Standards and Wastewater Treatment Requirements). Max = maximum, avg = average, and min = minimum.

	Criteria						
Beneficial use	pH	Dissolved gas[1]	Chlorine[2]	Toxic substances[3]	Ammonia	Intergravel dissolved oxygen	Radioactivity
Cold Water Biota	>= 6.5 and <= 9.5	<= 110% saturation	19.0 ug/l, 1-hr avg	<= CMC or CCC	varies[4]		
			11.0 ug/l, 4-day avg	<= Human Health criteria[5]			
Warm Water Biota	>= 6.5 and <= 9.5	<= 110% saturation	19.0 ug/l, 1-hr avg	<= CMC or CCC	varies[4]		
			11.0 ug/l, 4-day avg	<= Human Health criteria[5]			
Salmonid Spawning	>= 6.5 and <= 9.5	<= 110% saturation	19.0 ug/l, 1-hr avg	<= CMC or CCC	varies[4]	>= 5.0 mg/l, 1-day min	
			11.0 ug/l, 4-day avg	<= Human Health criteria[5]		>= 6.0 mg/l, 7-day avg mean	
Primary & Secondary Contact Recreation				<= Human Health criteria[5]			
Domestic Water Supply				<= Human Health criteria[6]			varies[7]

[1]at atmospheric pressure at point of collection

[2]total residual chlorine

[3]criteria from 40 CFR 131.36(b)(1) as modified by Section 250.07 of the Water Quality Standards and Wastewater Treatment Requirements; CMC (Criteria Maximum Concentration) - maximum concentration for one hour, CCC (Criteria Continuous Concentration) - maximum concentration for four days

[4]varies according to temperature and pH

[5]for consumption of organisms only

[6]for consumption of water and organisms

[7]varies based on results; criteria from Idaho Department of Health and Welfare (nda) Idaho Rules for Public Drinking Water Systems based on 40 CFR 141.15 and 16

Appendix B

Proper Functioning Condition information

Table B-1. Proper Functioning Condition (PFC) status of streams in the Blackfoot River subbasin.

Waterbody	Year evaluated	Stream segment evaluated	Reach	Reach length (mi)	Condition status[1]	Site	Percent unstable banks	Source
Blackfoot River	1994	2.1 mi upstream to Wolverine Creek	1	0.6	FAR		0-5	BLM, unpublished data
			2	0.6	PF		0-5	BLM, unpublished data
			3	0.6	FAR		6-25	BLM, unpublished data
			4	0.3	FAR		6-25	BLM, unpublished data
	1994	bel Cedar Creek		0.5	FAR		26-45	BLM, unpublished data
	1994	bel Cedar Creek		0.9	FAR		26-45	BLM, unpublished data
	1994	5.4 mi upstream to Miner Creek	1	0.6	FAR		6-25	BLM, unpublished data
			2	0.7	FAR		>45	BLM, unpublished data
			3	0.6	PF		0-5	BLM, unpublished data
			4	0.8	PF		0-5	BLM, unpublished data
			5	0.5	PF		6-25	BLM, unpublished data
			6	0.8	PF		0-5	BLM, unpublished data
			7	1	PF		6-25	BLM, unpublished data
			8	0.4	PF		6-25	BLM, unpublished data
	1993	1.7 mi upstream to Trail Creek	1	0.5	FAR		6-25	BLM, unpublished data
			2	0.8	N		>45	BLM, unpublished data
			3	0.4	N		26-45	BLM, unpublished data
	1993	Trail Creek to 1.2 mi upstream	1	0.6	FAR		0-5	BLM, unpublished data
			2	0.6	FAR		0-5	BLM, unpublished data
	1993	0.7 mi upstream to Brush Creek		0.7	FAR		0-5	BLM, unpublished data
	1993	Brush Creek to 2.3 mi upstream	1	0.6	FAR		0-5	BLM, unpublished data
			2	0.7	FAR		0-5	BLM, unpublished data
			3	1	N		26-45	BLM, unpublished data
	1993	bel Morgan Bridge		0.5	FAR		6-25	BLM, unpublished data
	1993	ab Morgan Bridge inc Grave Creek	1	0.6	FAR		6-25	BLM, unpublished data
			2	0.7	N		26-45	BLM, unpublished data
			3	0.8	N		>45	BLM, unpublished data
			4	0.9	N		>45	BLM, unpublished data
	1993	ab Grave Cr inc Grave Cr campground	1	1.2	FAR		26-45	BLM, unpublished data
			2	0.6	N		>45	BLM, unpublished data
			3	0.7	N		>45	BLM, unpublished data
	1993	bel Sagehen Campground		0.6	N		>45	BLM, unpublished data
	1993	ab Sagehen Campground	1	0.8	N		>45	BLM, unpublished data
			2	0.7	N		>45	BLM, unpublished data
			3	0.6	N		>45	BLM, unpublished data
			4	0.2	FAR		0-5	BLM, unpublished data
			5	0.4	N		6-25	BLM, unpublished data
			6	0.7	N		>45	BLM, unpublished data
	1993	bel Blackfoot Reservoir dam	1	0.5	N		6-25	BLM, unpublished data
			2N	0.6	PF		0-5	BLM, unpublished data
			2S		PF		0-5	BLM, unpublished data
			3N	0.4	PF		0-5	BLM, unpublished data
			3S		FAR		0-5	BLM, unpublished data
			4	0.8	FAR		0-5	BLM, unpublished data
			5	0.8	FAR		0-5	BLM, unpublished data
	1999	National Forest, upper Blackfoot			FAR(h)			USFS, unpublished data
Wolverine Creek	1994	mouth to 0.4 mi upstream	1	0.1	FAR		26-45	BLM, unpublished data
			2	0.3	FAR		> 45	BLM, unpublished data
	1997	mouth to 0.6 miles upstream	W1	0.6	FAR	1	5	ISCC, unpublished data
						2	50	ISCC, unpublished data
	1997	0.6 miles to 1.2 miles upstream	W3	0.6	N	1	70	ISCC, unpublished data
	1997	1.2 miles to 2.3 miles upstream	W4	1.1	N	1	0	ISCC, unpublished data
						2	20	ISCC, unpublished data
	1997	2.3 miles to 2.7 miles upstream	W5	0.4	PF	1	0	ISCC, unpublished data
	1997	2.7 miles to 3.2 miles upstream	W6	0.5	PF	1	10	ISCC, unpublished data
						2	0	ISCC, unpublished data
						3	0	ISCC, unpublished data

Table B-1. Continued.

Waterbody	Year evaluated	Stream segment evaluated	Reach	Reach length (mi)	Condition status[1]	Site	Percent unstable banks	Source
Wolverine Creek	1994	narrows reach	1	0.97	FAR		26-45	BLM, unpublished data
			2	1.21	N		> 45	BLM, unpublished data
	1997	3.2 miles to 5.2 miles upstream	W7	2.0	N	1	50	ISCC, unpublished data
	1997	5.2 miles to 6.6 miles upstream	W8	1.4	N	1	85	ISCC, unpublished data
						2	50	ISCC, unpublished data
	1997	6.6 miles to 8.0 miles upstream	W9	1.4	FAR	1	50	ISCC, unpublished data
						2	50	ISCC, unpublished data
						3	50	ISCC, unpublished data
	1997	8.0 miles to 9.7 miles upstream	W10	1.7	N	1	40	ISCC, unpublished data
						2	40	ISCC, unpublished data
Jones Creek	1996	BLM property below Mackelroy Cr	1	0.18	N		0-5	BLM, unpublished data
			2	0.8	N		0-5	BLM, unpublished data
Beaver Creek	1993			0.17	PF		0-5	BLM, unpublished data
Brush Creek	1993			0.38	FAR		0-5	BLM, unpublished data
	2000	1.1 miles to 2.8 miles upstream	BC11	1.7	PF		3	ISCC, unpublished data
	2000	2.8 miles to 3.8 miles upstream	BC10	1.0	PF		10	ISCC, unpublished data
	2000	7.1 miles to 8.4 miles upstream	BC7	1.3	FAR		80	ISCC, unpublished data
	2000	8.4 miles to 9.0 miles upstream	BC6	0.6	FAR		75	ISCC, unpublished data
	2000	9.2 miles to 10.5 miles upstream	BC4	1.3	FAR		90	ISCC, unpublished data
Rawlins Creek	1997	mouth to 1.0 miles upstream	RC1	1.0	FAR	1	0	ISCC, unpublished data
						2	10	ISCC, unpublished data
	1993			0.62	N		> 45	BLM, unpublished data
	1997	1.0 miles to 1.9 miles upstream	RC2a	0.9	FAR	1	0	ISCC, unpublished data
						2	10	ISCC, unpublished data
	1997	1.9 miles to 2.4 miles upstream	RC2b	0.5	FAR	1	40	ISCC, unpublished data
						2	20	ISCC, unpublished data
Horse Creek	1997	mouth to 0.1 miles upstream	H1	0.1	N	1	50	ISCC, unpublished data
	1997	0.1 miles to 0.4 miles upstream	H2	0.3	FAR	1	65	ISCC, unpublished data
	1997	0.4 miles to 0.5 miles upstream	H3	0.1	BC	1		ISCC, unpublished data
	1997	0.5 miles to 0.6 miles upstream	H4	0.1	BC	1		ISCC, unpublished data
	1997	0.6 miles to 1.1 miles upstream	H5	0.5	FAR	1	40	ISCC, unpublished data
	1997	1.1 miles to 1.6 miles upstream	H6	0.5	FAR	1		ISCC, unpublished data
	1997	1.6 miles to 2.2 miles upstream	H7	0.6	FAR	1	20	ISCC, unpublished data
						2	40	ISCC, unpublished data
Deadman Creek	1993			0.28	N		> 45	BLM, unpublished data
Grave Creek	1993			0.33	N		> 45	BLM, unpublished data
Negro Creek	1993	mouth to 0.6 mi upstream	1	0.26	FAR		6-25	BLM, unpublished data
			2	0.05	FAR		0-5	BLM, unpublished data
	1994		3	0.14	PF		0-5	BLM, unpublished data
			4	0.19	FAR		6-25	BLM, unpublished data
Corral Creek	1997	mouth to 0.8 miles upstream	C1	0.8	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
	1997	0.8 miles to 1.5 miles upstream	C1b	0.7	FAR	1	35	ISCC, unpublished data
						2	85	ISCC, unpublished data
	1997	1.5 miles to 2.4 miles upstream	C2	0.9	FAR	1	15	ISCC, unpublished data
						2	20	ISCC, unpublished data
						3	35	ISCC, unpublished data
	1997	2.4 miles to 3.5 miles upstream	C3	1.1	PF	1	50	ISCC, unpublished data
						2	40	ISCC, unpublished data
						3	60	ISCC, unpublished data
	1997	3.5 miles to 4.0 miles upstream	C4	0.5	PF	1	50	ISCC, unpublished data
						2	25	ISCC, unpublished data
	1997	4.0 miles to 5.3 miles upstream	C5	1.3	PF	1	10	ISCC, unpublished data
						2	0	ISCC, unpublished data
	1997	5.3 miles to 6.5 miles upstream	C6	1.2	FAR	1	20	ISCC, unpublished data
						2	70	ISCC, unpublished data

Table B-1. Continued.

Waterbody	Year evaluated	Stream segment evaluated	Reach	Reach length (mi)	Condition status[1]	Site	Percent unstable banks	Source
Corral Creek	1997	6.5 miles to 7.8 miles upstream	C7	1.3	FAR	1	0	ISCC, unpublished data
						2	5	ISCC, unpublished data
	1997	7.8 miles to 10.4 miles upstream	C8	2.6	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
	1997	10.4 miles to 11.2 miles upstream	C9	0.8	PF	1	0	ISCC, unpublished data
	1997	11.2 miles to 12.0 miles upstream	C10	0.8	PF	1	5	ISCC, unpublished data
	1997	12.0 miles to 13.4 miles upstream	C11	1.4	PF	1	5	ISCC, unpublished data
	1997	13.4 miles to 14.6 miles upstream	C12	1.2	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
	1997	14.6 miles to 15.1 miles upstream	C12b	0.5	FAR	1	10	ISCC, unpublished data
						2	0	ISCC, unpublished data
Poison Creek	1997	mouth to 0.3 miles upstream	P1	0.3	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
						3	30	ISCC, unpublished data
						4	30	ISCC, unpublished data
						5	10	ISCC, unpublished data
	1997	0.3 miles to 0.7 miles upstream	P2	0.4	FAR	1	50	ISCC, unpublished data
						2	0	ISCC, unpublished data
						3	10	ISCC, unpublished data
	1997	0.7 miles to 1.5 miles upstream	P3	0.8	PF	1	20	ISCC, unpublished data
	1997	1.5 miles to 2.8 miles upstream	P4	1.3	PF	1		ISCC, unpublished data
	1997	2.8 miles to 3.4 miles upstream	P5	0.6	PF	1	0	ISCC, unpublished data
Slug Creek	1998	mouth to 0.8 miles upstream	S1	0.8	PF	1	0	ISCC, unpublished data
						2	10	ISCC, unpublished data
						3	0	ISCC, unpublished data
	1998	0.8 miles to 1.7 miles upstream	S2	0.9	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
Dry Valley Creek	1998	mouth to 2.0 miles upstream	DVC1	2.0	N	1	0	ISCC, unpublished data
	1998	2.0 miles to 2.5 miles upstream	DVC2	0.5	PF	1	0	ISCC, unpublished data
	1998	2.5 miles to 5.8 miles upstream	DVC3	3.3	FAR	1	50	ISCC, unpublished data
	1998	5.8 miles to 7.7 miles upstream	DVC4	1.9	FAR	1	0	ISCC, unpublished data
						2	30	ISCC, unpublished data
	1998	7.7 miles to 8.5 miles upstream	DVC5	0.8	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
	1998	8.5 miles to 9.4 miles upstream	DVC6	0.9	FAR	1	15	ISCC, unpublished data
						2	5	ISCC, unpublished data
						3	0	ISCC, unpublished data
	1998	9.4 miles to 9.9 miles upstream	DVC7	0.5	PF	1	0	ISCC, unpublished data
	1999	National Forest			FAR(m)			USFS, unpublished data
Maybe Canyon Creek	1998	1.6 miles from mouth to 2.4 miles upstream	MC3	0.8	PF	1	10	ISCC, unpublished data
						2	25	ISCC, unpublished data
						3	10	ISCC, unpublished data
	1999	National Forest			N			USFS, unpublished data
Mill Canyon Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Angus Creek	1998	mouth to 0.4 miles upstream	AC1	0.4	PF	1	0	ISCC, unpublished data
						2	20	ISCC, unpublished data
						3	25	ISCC, unpublished data
	1999	National Forest			FAR(h)			USFS, unpublished data
Rasmussen Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Mill Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Lanes Creek	1998	5.0 miles from mouth to 5.8 miles upstream	LC4	0.8	FAR	1	0	ISCC, unpublished data
						2	50	ISCC, unpublished data
						3	15	ISCC, unpublished data
						4	20	ISCC, unpublished data
	1998	5.8 miles to 6.5 miles upstream	LC5	0.7	FAR	1	10	ISCC, unpublished data
						2	5	ISCC, unpublished data
						3	0	ISCC, unpublished data

Table B-1. Continued.

Waterbody	Year evaluated	Stream segment evaluated	Reach	Reach length (mi)	Condition status[1]	Site	Percent unstable banks	Source
Lanes Creek	1998	6.5 miles to 7.7 miles upstream	LC6	1.2	N	1	60	ISCC, unpublished data
	1998	7.7 miles to 8.2 miles upstream	LC 7.1	0.5	PF	1	20	ISCC, unpublished data
						2	0	ISCC, unpublished data
	1998	8.2 miles to 9.5 miles upstream	LC 7.2	1.3	N	1	50	ISCC, unpublished data
						2	20	ISCC, unpublished data
						3	50	ISCC, unpublished data
	1998	9.5 miles to 9.8 miles upstream	LC 8.1	0.3	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
						3	0	ISCC, unpublished data
						4	0	ISCC, unpublished data
	1998	9.8 miles to 10.0 miles upstream	LC 8.2	0.2	N	1	70	ISCC, unpublished data
	1998	10.0 miles to 11.3 miles upstream	LC 8.3	1.3	PF	1	0	ISCC, unpublished data
						2	15	ISCC, unpublished data
	1995			0.28	N		> 45	BLM, unpublished data
	1999	National Forest			FAR(m)			USFS, unpublished data
Bacon Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Sheep Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Daves Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Browns Canyon Creek	1995			0.54	FAR		0-5	BLM, unpublished data
	1999	National Forest			FAR(h)			USFS, unpublished data
Corrailsen Creek	1995			1.3	N		> 45	BLM, unpublished data
	1999	National Forest			FAR(h)			USFS, unpublished data
Olsen Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Lander Creek	1995			0.33	FAR		6-25	BLM, unpublished data
	1999	National Forest			PF			USFS, unpublished data
Diamond Creek	1998	7.0 miles to 9.9 miles upstream	DC4	2.9	PF	1	30	ISCC, unpublished data
						2	30	ISCC, unpublished data
						3	25	ISCC, unpublished data
						4	45	ISCC, unpublished data
						5	40	ISCC, unpublished data
						6	40	ISCC, unpublished data
	1998	9.9 miles to 11.6 miles upstream	DC5	1.7	PF	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
						3	0	ISCC, unpublished data
						4	0	ISCC, unpublished data
						5	20	ISCC, unpublished data
						6	0	ISCC, unpublished data
						7	35	ISCC, unpublished data
	1998	11.6 miles to 12.8 miles upstream	DC6.1	1.2	FAR	1	0	ISCC, unpublished data
						2	50	ISCC, unpublished data
						3	5	ISCC, unpublished data
						4	10	ISCC, unpublished data
						5	15	ISCC, unpublished data
						6	25	ISCC, unpublished data
						7	50	ISCC, unpublished data
			DC6.2		PF	1	0	ISCC, unpublished data
						2	10	ISCC, unpublished data
						3	20	ISCC, unpublished data
						4	0	ISCC, unpublished data
	1998	12.8 miles to 13.7 miles upstream	DC7	0.9	N	1	30	ISCC, unpublished data
						2	75	ISCC, unpublished data
						3	100	ISCC, unpublished data
	1998	13.7 miles to 14.9 miles upstream	DC8	1.2	FAR	1	0	ISCC, unpublished data
						2	0	ISCC, unpublished data
						3	5	ISCC, unpublished data

Table B-1. Continued.

Waterbody	Year evaluated	Stream segment evaluated	Reach	Reach length (mi)	Condition status[1]	Site	Percent unstable banks	Source
Diamond Creek	1998	14.9 miles to 16.3 miles upstream	DC9	1.4		1	75	ISCC, unpublished data
						2		ISCC, unpublished data
						3	20	ISCC, unpublished data
						4	30	ISCC, unpublished data
						5	70	ISCC, unpublished data
						6	5	ISCC, unpublished data
	1999	National Forest			FAR(m)			USFS, unpublished data
Timothy Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Kendall Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Cabin Creek	1999	National Forest			PF			USFS, unpublished data
Yellowjacket Creek	1999	National Forest			PF			USFS, unpublished data
Campbell Canyon Creek	1999	National Forest			FAR(h)			USFS, unpublished data
Terrace Canyon Creek	1999	National Forest			PF			USFS, unpublished data
Coyote Creek	1999	National Forest			PF			USFS, unpublished data
Hornet Canyon Creek	1999	lower 0.25 miles			FAR(m)			USFS, unpublished data
	1999	upper			PF			USFS, unpublished data
Bear Creek	1999	lower			N			USFS, unpublished data
	1999	upper			FAR(h)			USFS, unpublished data
Timber Creek	1999	National Forest			FAR(h)			USFS, unpublished data
	1999	South Fork			FAR(h)			USFS, unpublished data
Stewart Creek	1999	National Forest			FAR(h)			USFS, unpublished data
South Stewart Creek	1999	National Forest			FAR(h)			USFS, unpublished data

[1]PF = properly functioning (healthy), FAR = functional at risk (healthy, but with problems), N = non functioning (unhealthy), BC = beaver complex (h)=high, close to properly functioning; (m)=moderate, ; (l)=low, close to non functioning

Appendix C

Stream sediment information

Table C-1. Embeddedness and percent surface fines information from Blackfoot River and tributaries.

Waterbody	Site	Date	Site/ station	Percent surface sediment		Source
Blackfoot River	bel Reservation Canal	5-Oct-98		21.3	1	DEQ, unpublished data
	5.4 mi upstream to Miner Creek	1994	8	1	2	BLM, unpublished data
	1.7 mi upstream to Trail Creek	1993	1	13	2	BLM, unpublished data
	1.7 mi upstream to Trail Creek	1993	2	40	2	BLM, unpublished data
	1.7 mi upstream to Trail Creek	1993	3	30	2	BLM, unpublished data
	Trail Creek to 1.2 mi upstream	1993	1	30	2	BLM, unpublished data
	Trail Creek to 1.2 mi upstream	1993	2	23	2	BLM, unpublished data
	0.7 mi upstream to Brush Creek	1993		13	2	BLM, unpublished data
	Brush Creek to 2.3 mi upstream	1993	1	3.5	2	BLM, unpublished data
	Brush Creek to 2.3 mi upstream	1993	2	1	2	BLM, unpublished data
	Brush Creek to 2.3 mi upstream	1993	3	13	2	BLM, unpublished data
	bel Morgan Bridge	1993		40	2	BLM, unpublished data
	ab Morgan Bridge inc Grave Creek	1993	1	13	2	BLM, unpublished data
	ab Morgan Bridge inc Grave Creek	1993	2	23	2	BLM, unpublished data
	ab Morgan Bridge inc Grave Creek	1993	3	40	2	BLM, unpublished data
	ab Morgan Bridge inc Grave Creek	1993	4	20	2	BLM, unpublished data
	ab Morgan Bridge	8-Oct-96		71	3	Royer and Minshall 1998
	ab Grave Cr inc Grave Cr campground	1993	1	13	2	BLM, unpublished data
	ab Grave Cr inc Grave Cr campground	1993	2	30	2	BLM, unpublished data
	ab Grave Cr inc Grave Cr campground	1993	3	40	2	BLM, unpublished data
	Grave Creek campground	16-Oct-97		20	1	DEQ, unpublished data
	bel Sagehen Campground	1993		60	2	BLM, unpublished data
	ab Sagehen Campground	1993	1	60	2	BLM, unpublished data
	ab Sagehen Campground	1993	2	50	2	BLM, unpublished data
	ab Sagehen Campground	1993	3	70	2	BLM, unpublished data
	ab Sagehen Campground	1993	4	50	2	BLM, unpublished data
	ab Sagehen Campground	1993	5	70	2	BLM, unpublished data
	ab Sagehen Campground	1993	6	40	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	1	30	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	2N	30	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	2S	13	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	3N	50	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	3S	13	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	4	20	2	BLM, unpublished data
	bel Blackfoot Reservoir dam	1993	5	13	2	BLM, unpublished data
	nr Henry	1992		100	2	Maret and Ott 1997
	Slug Creek bridge	16-Oct-97		23.3	1	DEQ, unpublished data
	bel Dry Valley Creek	Spring, 1989				Mariah Associates 1990
	bel Dry Valley Creek	Fall, 1989		>75	3	Mariah Associates 1990
	ab Dry Valley Creek	Spring, 1989				Mariah Associates 1990
	ab Dry Valley Creek	Fall, 1989		>75	3	Mariah Associates 1990
	bel Angus Creek	Aug-73		25	1	Platts and Primbs 1976
	bel Angus Creek	Aug-74		21	1	Platts and Primbs 1976
	ab Angus Creek	Aug-73		22	1	Platts and Primbs 1976
	ab Angus Creek	Aug-74		33	1	Platts and Primbs 1976
	State land ab Angus Creek	13-Oct-94		75	2	Scully et al. 1998
Wolverine Creek	mouth to 0.4 mi upstream	1994	1	20.5	2	BLM, unpublished data
	mouth to 0.4 mi upstream	1994	2	30	2	BLM, unpublished data
	mouth to 0.6 miles upstream	1997	1	40	2	ISCC, unpublished data
	mouth to 0.6 miles upstream	1997	2	7	2	ISCC, unpublished data
	0.6 miles to 1.2 miles upstream	1997	1	17	2	ISCC, unpublished data
	1.2 miles to 2.3 miles upstream	1997	1	10	2	ISCC, unpublished data
	1.2 miles to 2.3 miles upstream	1997	2	15	2	ISCC, unpublished data
	2.3 miles to 2.7 miles upstream	1997	1	25	2	ISCC, unpublished data

Table C-1. Continued.

Waterbody	Site	Date	Site/ station	Percent surface sediment		Source
Wolverine Creek	2.7 miles to 3.2 miles upstream	1997	1	20	2	ISCC, unpublished data
	2.7 miles to 3.2 miles upstream	1997	2	10	2	ISCC, unpublished data
	2.7 miles to 3.2 miles upstream	1997	3	20	2	ISCC, unpublished data
	narrows reach	1994	1	3.5	2	BLM, unpublished data
	narrows reach	1994	2	3.5	2	BLM, unpublished data
	3.2 miles to 5.2 miles upstream	1997	1	25	2	ISCC, unpublished data
	5.2 miles to 6.6 miles upstream	1997	1	40	2	ISCC, unpublished data
	5.2 miles to 6.6 miles upstream	1997	2	25	2	ISCC, unpublished data
	6.6 miles to 8.0 miles upstream	1997	1	10	2	ISCC, unpublished data
	6.6 miles to 8.0 miles upstream	1997	2	15	2	ISCC, unpublished data
	6.6 miles to 8.0 miles upstream	1997	3	65	2	ISCC, unpublished data
	8.0 miles to 9.7 miles upstream	1997	1	80	2	ISCC, unpublished data
	8.0 miles to 9.7 miles upstream	1997	2	25	2	ISCC, unpublished data
Jones Creek	BLM property below Mackelroy Cr	1996	1	1	2	BLM, unpublished data
	BLM property below Mackelroy Cr	1996	2	0	2	BLM, unpublished data
Beaver Creek		1993		40	2	BLM, unpublished data
Brush Creek		1993		23	2	BLM, unpublished data
Rawlins Creek	mouth to 1.0 miles upstream	1997	1	50	2	ISCC, unpublished data
	mouth to 1.0 miles upstream	1997	2	30	2	ISCC, unpublished data
		1993		60	2	BLM, unpublished data
	1.0 miles to 1.9 miles upstream	1997	1	50	2	ISCC, unpublished data
	1.0 miles to 1.9 miles upstream	1997	2	40	2	ISCC, unpublished data
	1.9 miles to 2.4 miles upstream	1997	1	5	2	ISCC, unpublished data
Horse Creek	mouth to 0.1 miles upstream	1997	1	50	2	ISCC, unpublished data
	0.1 miles to 0.4 miles upstream	1997	1	20	2	ISCC, unpublished data
	0.4 miles to 0.5 miles upstream	1997	1			ISCC, unpublished data
	0.5 miles to 0.6 miles upstream	1997	1			ISCC, unpublished data
	0.6 miles to 1.1 miles upstream	1997	1	65	2	ISCC, unpublished data
	1.1 miles to 1.6 miles upstream	1997	1			ISCC, unpublished data
	1.6 miles to 2.2 miles upstream	1997	1	70	2	ISCC, unpublished data
	1.6 miles to 2.2 miles upstream	1997	2	80	2	ISCC, unpublished data
Deadman Creek		1993		50	2	BLM, unpublished data
Grave Creek		1993		13	2	BLM, unpublished data
Negro Creek	lower	1993		50	2	BLM, unpublished data
	upper	1993		70	2	BLM, unpublished data
	lower	1994		90	2	BLM, unpublished data
	upper	1994		97	2	BLM, unpublished data
Corral Creek	mouth to 0.8 miles upstream	1997	1	10	2	ISCC, unpublished data
	mouth to 0.8 miles upstream	1997	2	20	2	ISCC, unpublished data
	0.8 miles to 1.5 miles upstream	1997	1	25	2	ISCC, unpublished data
	0.8 miles to 1.5 miles upstream	1997	2	75	2	ISCC, unpublished data
	1.5 miles to 2.4 miles upstream	1997	1	70	2	ISCC, unpublished data
	1.5 miles to 2.4 miles upstream	1997	2	70	2	ISCC, unpublished data
	1.5 miles to 2.4 miles upstream	1997	3	80	2	ISCC, unpublished data
	2.4 miles to 3.5 miles upstream	1997	1	100	2	ISCC, unpublished data
	2.4 miles to 3.5 miles upstream	1997	2	70	2	ISCC, unpublished data
	2.4 miles to 3.5 miles upstream	1997	3	70	2	ISCC, unpublished data
	3.5 miles to 4.0 miles upstream	1997	1	75	2	ISCC, unpublished data
	3.5 miles to 4.0 miles upstream	1997	2	75	2	ISCC, unpublished data
	4.0 miles to 5.3 miles upstream	1997	1	70	2	ISCC, unpublished data
	4.0 miles to 5.3 miles upstream	1997	2	40	2	ISCC, unpublished data
	5.3 miles to 6.5 miles upstream	1997	1	80	2	ISCC, unpublished data

Table C-1. Continued.

Waterbody	Site	Date	Site/ station	Percent surface sediment		Source
Corral Creek	5.3 miles to 6.5 miles upstream	1997	2	70	2	ISCC, unpublished data
	6.5 miles to 7.8 miles upstream	1997	1	40	2	ISCC, unpublished data
	6.5 miles to 7.8 miles upstream	1997	2	80	2	ISCC, unpublished data
	7.8 miles to 10.4 miles upstream	1997	1	100	2	ISCC, unpublished data
	7.8 miles to 10.4 miles upstream	1997	2	95	2	ISCC, unpublished data
	10.4 miles to 11.2 miles upstream	1997	1	100	2	ISCC, unpublished data
	11.2 miles to 12.0 miles upstream	1997	1	80	2	ISCC, unpublished data
	12.0 miles to 13.4 miles upstream	1997	1	65	2	ISCC, unpublished data
	13.4 miles to 14.6 miles upstream	1997	1	60	2	ISCC, unpublished data
	13.4 miles to 14.6 miles upstream	1997	2	50	2	ISCC, unpublished data
	14.6 miles to 15.1 miles upstream	1997	1	70	2	ISCC, unpublished data
	14.6 miles to 15.1 miles upstream	1997	2	80	2	ISCC, unpublished data
Poison Creek	mouth to 0.3 miles upstream	1997	1	10	2	ISCC, unpublished data
	mouth to 0.3 miles upstream	1997	2	0	2	ISCC, unpublished data
	mouth to 0.3 miles upstream	1997	3	20	2	ISCC, unpublished data
	mouth to 0.3 miles upstream	1997	4	10	2	ISCC, unpublished data
	mouth to 0.3 miles upstream	1997	5	20	2	ISCC, unpublished data
	0.3 miles to 0.7 miles upstream	1997	1	40	2	ISCC, unpublished data
	0.3 miles to 0.7 miles upstream	1997	2	10	2	ISCC, unpublished data
	0.3 miles to 0.7 miles upstream	1997	3	60	2	ISCC, unpublished data
	0.7 miles to 1.5 miles upstream	1997	1	60	2	ISCC, unpublished data
	1.5 miles to 2.8 miles upstream	1997	1			ISCC, unpublished data
	2.8 miles to 3.4 miles upstream	1997	1	100	2	ISCC, unpublished data
Slug Creek	mouth to 0.8 miles upstream	1998	1	100	2	ISCC, unpublished data
	mouth to 0.8 miles upstream	1998	2	100	2	ISCC, unpublished data
	mouth to 0.8 miles upstream	1998	3	100	2	ISCC, unpublished data
	0.8 miles to 1.7 miles upstream	1998	1	100	2	ISCC, unpublished data
	0.8 miles to 1.7 miles upstream	1998	2	100	2	ISCC, unpublished data
Dry Valley Creek	lowest	Spring, 1989		25-50	3	Mariah Associates 1990
	lowest	Fall, 1989		>75	3	Mariah Associates 1990
	lower	Spring, 1989		5-25	3	Mariah Associates 1990
	lower	Fall, 1989		>75	3	Mariah Associates 1990
	mouth to 2.0 miles upstream	1998	1	0	2	ISCC, unpublished data
	2.0 miles to 2.5 miles upstream	1998	1	60	2	ISCC, unpublished data
	2.5 miles to 5.8 miles upstream	1998	1	60	2	ISCC, unpublished data
	middle	Spring, 1989		>75	3	Mariah Associates 1990
	5.8 miles to 7.7 miles upstream	1998	1	100	2	ISCC, unpublished data
	5.8 miles to 7.7 miles upstream	1998	2	65	2	ISCC, unpublished data
	upper	Spring, 1989		>75	3	Mariah Associates 1990
	upper	Fall, 1989		>75	3	Mariah Associates 1990
	7.7 miles to 8.5 miles upstream	1998	1	100	2	ISCC, unpublished data
	7.7 miles to 8.5 miles upstream	1998	2			ISCC, unpublished data
	8.5 miles to 9.4 miles upstream	1998	1	0	2	ISCC, unpublished data
	8.5 miles to 9.4 miles upstream	1998	2	50	2	ISCC, unpublished data
	8.5 miles to 9.4 miles upstream	1998	3	0	2	ISCC, unpublished data
	9.4 miles to 9.9 miles upstream	1998	1	0	2	ISCC, unpublished data
Maybe Canyon Creek	1.6 miles from mouth to 2.4 miles upstream	1998	1	0	2	ISCC, unpublished data
	1.6 miles from mouth to 2.4 miles upstream	1998	2	10	2	ISCC, unpublished data
	1.6 miles from mouth to 2.4 miles upstream	1998	3	0	2	ISCC, unpublished data

Table C-1. Continued.

Waterbody	Site	Date	Site/ station	Percent surface sediment		Source
Angus Creek	mouth to 0.4 miles upstream	1998	1	20	2	ISCC, unpublished data
	mouth to 0.4 miles upstream	1998	2	10	2	ISCC, unpublished data
	mouth to 0.4 miles upstream	1998	3	25	2	ISCC, unpublished data
	about 0.25 mi above mouth	30-Sep-99				DEQ, unpublished data
	Blackfoot River Road to mined area	21-Aug-70		63	1	Platts and Primbs 1976
	Blackfoot River Road to mined area	19-Aug-74		61	1	Platts and Primbs 1976
	lower	Oct-90		50-75	3	Mariah Associates 1992a
	lower	May-91		>75	3	Mariah Associates 1992a
	lower	Oct-91		50-75	3	Mariah Associates 1992a
	lower	May-92		50-75	3	Mariah Associates 1992a
	middle	Oct-90		>75	3	Mariah Associates 1992a
	middle	May-91		>75	3	Mariah Associates 1992a
	middle	Oct-91		>75	3	Mariah Associates 1992a
	upper	Oct-90		>75	3	Mariah Associates 1992a
	upper	May-91		>75	3	Mariah Associates 1992a
	upper	Oct-91		>75	3	Mariah Associates 1992a
	upper	May-92		>75	3	Mariah Associates 1992a
Rasmussen Creek	middle	Oct-90		>75	3	Mariah Associates 1992a
	middle	May-91		>75	3	Mariah Associates 1992a
	middle	Oct-91		>75	3	Mariah Associates 1992a
	middle	May-92		>75	3	Mariah Associates 1992a
	upper	Oct-90		>75	3	Mariah Associates 1992a
	upper	May-91		>75	3	Mariah Associates 1992a
	upper	Oct-91		>75	3	Mariah Associates 1992a
	upper	May-92		>75	3	Mariah Associates 1992a
No Name Creek	lowest	May-91		25-50	3	Mariah Associates 1992a
	lower	May-91		25-50	3	Mariah Associates 1992a
	lower	Oct-91		50-75	3	Mariah Associates 1992a
	lower	May-92		50-75	3	Mariah Associates 1992a
	middle	Oct-90		>75	3	Mariah Associates 1992a
	middle	May-91		50-75	3	Mariah Associates 1992a
	middle	Oct-91		>75	3	Mariah Associates 1992a
	middle	May-92		>75	3	Mariah Associates 1992a
	upper	Oct-90		>75	3	Mariah Associates 1992a
	upper	May-91		>75	3	Mariah Associates 1992a
	upper	Oct-91		>75	3	Mariah Associates 1992a
	upper	May-92		>75	3	Mariah Associates 1992a
Spring Creek	lower	Oct-90		>75	3	Mariah Associates 1991a
	lower	Oct-91		50-75	3	Mariah Associates 1993a
	lower	May-92		50-75	3	Mariah Associates 1993a
	upper	Oct-90		50-75	3	Mariah Associates 1991a
	upper	Oct-91		50-75	3	Mariah Associates 1993a
	upper	May-92		50-75	3	Mariah Associates 1993a
Mill Creek		May-91		25-75	3	Mariah Associates 1993a
		Oct-91		50-75	3	Mariah Associates 1993a
		May-92		25-50	3	Mariah Associates 1993a
		Oct-92		25-50	3	Mariah Associates 1993a
Lanes Creek	5.0 miles from mouth to 5.8 miles upstream	1998	1	20	2	ISCC, unpublished data
	5.0 miles from mouth to 5.8 miles upstream	1998	2	33	2	ISCC, unpublished data
	5.0 miles from mouth to 5.8 miles upstream	1998	3	20	2	ISCC, unpublished data
	5.0 miles from mouth to 5.8 miles upstream	1998	4	20	2	ISCC, unpublished data

Table C-1. Continued.

Waterbody	Site	Date	Site/ station	Percent surface sediment		Source
Lanes Creek	5.8 miles to 6.5 miles upstream	1998	1	2	2	ISCC, unpublished data
	5.8 miles to 6.5 miles upstream	1998	2	0	2	ISCC, unpublished data
	5.8 miles to 6.5 miles upstream	1998	3	0	2	ISCC, unpublished data
	6.5 miles to 7.7 miles upstream	1998	1	10	2	ISCC, unpublished data
	7.7 miles to 8.2 miles upstream	1998	1	33	2	ISCC, unpublished data
	7.7 miles to 8.2 miles upstream	1998	2	15	2	ISCC, unpublished data
	8.2 miles to 9.5 miles upstream	1998	1	70	2	ISCC, unpublished data
	8.2 miles to 9.5 miles upstream	1998	2	40	2	ISCC, unpublished data
	8.2 miles to 9.5 miles upstream	1998	3	75	2	ISCC, unpublished data
	9.5 miles to 9.8 miles upstream	1998	1	30	2	ISCC, unpublished data
	9.5 miles to 9.8 miles upstream	1998	2	30	2	ISCC, unpublished data
	9.5 miles to 9.8 miles upstream	1998	3	50	2	ISCC, unpublished data
	9.5 miles to 9.8 miles upstream	1998	4	15	2	ISCC, unpublished data
	9.8 miles to 10.0 miles upstream	1998	1	30	2	ISCC, unpublished data
	10.0 miles to 11.3 miles upstream	1998	1	20	2	ISCC, unpublished data
	10.0 miles to 11.3 miles upstream	1998	2	25	2	ISCC, unpublished data
	State land at Corrailsen Creek	2-Sep-95		33	2	IDFG, unpublished data
		1995		23	2	BLM, unpublished data
Bacon Creek		29-Sep-99		54.7	*	IDFG, unpublished data
Sheep Creek	lowest	Oct-90		25->75	3	Mariah Associates 1992a
	lowest	May-91		>75	3	Mariah Associates 1992a
	lowest	Oct-91		25-50	3	Mariah Associates 1992a
	lowest	May-92		50-75	3	Mariah Associates 1992a
	lower	Oct-90		>75	3	Mariah Associates 1992a
	lower	May-91		>75	3	Mariah Associates 1992a
	lower	Oct-91		50->75	3	Mariah Associates 1992a
	lower	May-92		50->75	3	Mariah Associates 1992a
	middle	Oct-90		50->75	3	Mariah Associates 1992a
	middle	May-91		>75	3	Mariah Associates 1992a
	middle	Oct-91		>75	3	Mariah Associates 1992a
	middle	May-92		>75	3	Mariah Associates 1992a
	upper	Oct-90		50-75	3	Mariah Associates 1992a
	upper	May-91		50-75	3	Mariah Associates 1992a
	upper	Oct-91		50-75	3	Mariah Associates 1992a
	upper	May-92		>75	3	Mariah Associates 1992a
	tributary	Oct-90		50->75	3	Mariah Associates 1992a
	tributary	May-91		50-75	3	Mariah Associates 1992a
	tributary	Oct-91		<5-50	3	Mariah Associates 1992a
	tributary	May-92		>75	3	Mariah Associates 1992a
Browns Canyon Creek		1995		13	2	BLM, unpublished data
Corrailsen Creek		1995		23	2	BLM, unpublished data
Lander Creek		1995		50.5	2	BLM, unpublished data
Diamond Creek	7.0 miles to 9.9 miles upstream	1998	1	20	2	ISCC, unpublished data
	7.0 miles to 9.9 miles upstream	1998	2	20	2	ISCC, unpublished data
	7.0 miles to 9.9 miles upstream	1998	3	20	2	ISCC, unpublished data
	7.0 miles to 9.9 miles upstream	1998	4	20	2	ISCC, unpublished data
	7.0 miles to 9.9 miles upstream	1998	5	20	2	ISCC, unpublished data
	7.0 miles to 9.9 miles upstream	1998	6			ISCC, unpublished data

Table C-1. Continued.

Waterbody	Site	Date	Site/ station	Percent surface sediment		Source
Diamond Creek	9.9 miles to 11.6 miles upstream	1998	1	20	[2]	ISCC, unpublished data
	9.9 miles to 11.6 miles upstream	1998	2	100	[2]	ISCC, unpublished data
	9.9 miles to 11.6 miles upstream	1998	3	25	[2]	ISCC, unpublished data
	9.9 miles to 11.6 miles upstream	1998	4	25	[2]	ISCC, unpublished data
	9.9 miles to 11.6 miles upstream	1998	5	25	[2]	ISCC, unpublished data
	9.9 miles to 11.6 miles upstream	1998	6	50	[2]	ISCC, unpublished data
	9.9 miles to 11.6 miles upstream	1998	7	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	1	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	2	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	3	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	4	15	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	5	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	6	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	7	20	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	8	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	9	10	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	10	20	[2]	ISCC, unpublished data
	11.6 miles to 12.8 miles upstream	1998	11	10	[2]	ISCC, unpublished data
	12.8 miles to 13.7 miles upstream	1998	1	15	[2]	ISCC, unpublished data
	12.8 miles to 13.7 miles upstream	1998	2	10	[2]	ISCC, unpublished data
	12.8 miles to 13.7 miles upstream	1998	3	30	[2]	ISCC, unpublished data
	13.7 miles to 14.9 miles upstream	1998	1	40	[2]	ISCC, unpublished data
	13.7 miles to 14.9 miles upstream	1998	2	10	[2]	ISCC, unpublished data
	13.7 miles to 14.9 miles upstream	1998	3	40	[2]	ISCC, unpublished data
	14.9 miles to 16.3 miles upstream	1998	1	50	[2]	ISCC, unpublished data
	14.9 miles to 16.3 miles upstream	1998	2			ISCC, unpublished data
	14.9 miles to 16.3 miles upstream	1998	3	65	[2]	ISCC, unpublished data
	14.9 miles to 16.3 miles upstream	1998	4	15	[2]	ISCC, unpublished data
	14.9 miles to 16.3 miles upstream	1998	5	50	[2]	ISCC, unpublished data
	14.9 miles to 16.3 miles upstream	1998	6	0	[2]	ISCC, unpublished data
	State land ab Kendall Creek	6-Aug-94		34	[2]	Scully et al. 1998

[1]mean value of fine sediment (about < 0.25 in) in the stream channel
[2]silt/clay/sand < 2 mm
[3]embeddedness

Appendix D

Water quality information

Table D-1. Water quality information from monitoring in the Blackfoot River subbasin.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (^{0}C)	Dissolved oxygen (mg/l)	Source
Blackfoot R	12-Jun-85	nr mouth		1	4 [1]				16	8.8	Crist and Holden 1986
	3-Aug-85	nr mouth		1	13 [1]				20	8.9	Crist and Holden 1986
	12-Dec-85	nr mouth		1	0.48				1		Crist and Holden 1986
	15-May-86	nr mouth		1	2.6				11.5	8.5	Crist and Holden 1986
	5-Sep-86	nr mouth		1	0.88						Crist and Holden 1986
	15-Nov-86	nr mouth		1	1.2						Crist and Holden 1986
	Mar-75	at Interstate 15 bridge	181	1		500					Heimer 1978
	Apr-75	at Interstate 15 bridge	453	1		491					Heimer 1978
	May-75	at Interstate 15 bridge	1062	1		597					Heimer 1978
	Jun-75	at Interstate 15 bridge	863	1		327					Heimer 1978
	Jul-75	at Interstate 15 bridge	316	1		37					Heimer 1978
	Aug-75	at Interstate 15 bridge	326	1		47					Heimer 1978
	Sep-75	at Interstate 15 bridge	206	1		0					Heimer 1978
	1975	at Blackfoot		1	18 [1]				8.3		Balmer and Noble 1979
	7-Oct-81	nr Blackfoot		1	2.3	22	[2] 40	60			DEQ, unpublished data
	9-Nov-81	nr Blackfoot		1	13	66	[2] 1400	690			DEQ, unpublished data
	1-Dec-81	nr Blackfoot		1	4.4	17	[2] 100	80			DEQ, unpublished data
	12-Jan-82	nr Blackfoot		1	1.5	5	[2] 1	39			DEQ, unpublished data
	3-Feb-82	nr Blackfoot		1	4	6	[2] 1	< 200			DEQ, unpublished data
	16-Mar-82	nr Blackfoot		1	13	30	[2] 36	320			DEQ, unpublished data
	29-Apr-82	nr Blackfoot		1	67	185	[2] 240	220			DEQ, unpublished data
	11-May-82	nr Blackfoot		1	17	219	[2] 90	620			DEQ, unpublished data
	8-Jun-82	nr Blackfoot		1	27	97	[2] 70	140			DEQ, unpublished data
	13-Jul-82	nr Blackfoot		1	17	35	[2] 18	2200			DEQ, unpublished data
	9-Aug-82	nr Blackfoot		1	18	61	[2] 520	530			DEQ, unpublished data
	21-Sep-82	nr Blackfoot		1	3.7	16	[2] 50	230			DEQ, unpublished data
	22-Nov-88	nr Blackfoot		1	1.5	10	10	73	5		DEQ, unpublished data
	19-Dec-88	nr Blackfoot		1	2	14	[2] 3	38	0		DEQ, unpublished data
	21-Mar-89	nr Blackfoot		1	21	40	2	29	5.2	13.84	DEQ, unpublished data
	18-Apr-89	nr Blackfoot		1	54	212	50	90	14.1	11.53	DEQ, unpublished data
	17-May-89	nr Blackfoot		1		38	20	90	15.6	13.26	DEQ, unpublished data
	21-Jun-89	nr Blackfoot		1	10	18	88	210	17.1	10.26	DEQ, unpublished data
	5-Jun-85	immediately bel Equalizing Dam		1	10 [1]				16	9.5	Crist and Holden 1986
	2-Aug-85	immediately bel Equalizing Dam		1	17 [1]				17	7	Crist and Holden 1986
	23-Oct-85	immediately bel Equalizing Dam		1	5 [1]				6		Crist and Holden 1986
	12-Dec-85	immediately bel Equalizing Dam		1	0.5				0.1		Crist and Holden 1986
	15-May-86	immediately bel Equalizing Dam		1	2.7				10	8.8	Crist and Holden 1986
	5-Sep-86	immediately bel Equalizing Dam		1	0.85				16		Crist and Holden 1986
	15-Nov-86	immediately bel Equalizing Dam		1	1						Crist and Holden 1986
	1975, 1977	Rich Lane crossing		2	5 [1]				4.4	11	Balmer and Noble 1979
	4-Jun-85	0.5 mi ab Rich Lane bridge		1	10 [1]				15	9	Crist and Holden 1986
	6-Aug-85	0.5 mi ab Rich Lane bridge		1	18 [1]				17.5	7.6	Crist and Holden 1986
	28-Oct-85	0.5 mi ab Rich Lane bridge		1	4 [1]				9		Crist and Holden 1986
	12-Dec-85	0.5 mi ab Rich Lane bridge		1	0.37				1		Crist and Holden 1986
	15-May-86	0.5 mi ab Rich Lane bridge		1	2.7				10.2	8	Crist and Holden 1986
	5-Sep-86	0.5 mi ab Rich Lane bridge		1	0.76				16.5		Crist and Holden 1986
	15-Nov-86	0.5 mi ab Rich Lane bridge		1	0.98						Crist and Holden 1986
	28-Sep-99	at Rich Lane bridge		1		25	[2]		8.6	8.37	DEQ, unpublished data
	5-Oct-98	bel Reservation Canal	268.8	1					8.6	11.37	DEQ, unpublished data

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Blackfoot River	19-Nov-86	Reid Bridge		1		42	20	110			Drewes 1987
	17-Feb-87	Reid Bridge	225	1			10 [2]	30			Drewes 1987
	02-Mar-87	Reid Bridge	118	1		198	10	40			Drewes 1987
	16-Mar-87	Reid Bridge	336	1		72	10 [2]	10			Drewes 1987
	30-Mar-87	Reid Bridge	350	1		32	10 [2]	10			Drewes 1987
	13-Apr-87	Reid Bridge	275	1		14	10	10			Drewes 1987
	04-May-87	Reid Bridge	375	1		150	60	40			Drewes 1987
	19-May-87	Reid Bridge	275	1		298	40	820			Drewes 1987
	02-Jun-87	Reid Bridge	560	1		24	20	20			Drewes 1987
	15-Jun-87	Reid Bridge	300	1		142	110	250			Drewes 1987
	06-Jul-87	Reid Bridge	300	1		54	200	60			Drewes 1987
	19-Nov-86	USGS gage site nr Shelley	344	1		12	10 [2]	10			Drewes 1987
	17-Feb-87	USGS gage site nr Shelley	122	1			10 [2]	10			Drewes 1987
	02-Mar-87	USGS gage site nr Shelley	317	1		188	10 [2]	10			Drewes 1987
	16-Mar-87	USGS gage site nr Shelley	400	1		58	10 [2]	30			Drewes 1987
	30-Mar-87	USGS gage site nr Shelley	365	1		40	10 [2]	10			Drewes 1987
	13-Apr-87	USGS gage site nr Shelley	224	1		16	10 [2]	10			Drewes 1987
	04-May-87	USGS gage site nr Shelley	666	1		98	10 [2]	20			Drewes 1987
	19-May-87	USGS gage site nr Shelley	868	1		114	50	280			Drewes 1987
	02-Jun-87	USGS gage site nr Shelley	713	1		20	10 [2]	40			Drewes 1987
	15-Jun-87	USGS gage site nr Shelley	918	1		34	40	130			Drewes 1987
	06-Jul-87	USGS gage site nr Shelley	968	1		16	10 [2]	30			Drewes 1987
	02-Jun-85	between Wolverine Cr & The Cove		1	13 [1]				14	11.1	Crist and Holden 1986
	09-Aug-85	between Wolverine Cr & The Cove		1	6 [1]				15	9.6	Crist and Holden 1986
	25-Oct-85	between Wolverine Cr & The Cove		1	4 [1]				10.5		Crist and Holden 1986
	12-Dec-85	between Wolverine Cr & The Cove		1	0.42				0.1		Crist and Holden 1986
	15-May-86	between Wolverine Cr & The Cove		1	1.8				11.5	8.5	Crist and Holden 1986
	05-Sep-86	between Wolverine Cr & The Cove		1	0.74				15		Crist and Holden 1986
	15-Nov-86	between Wolverine Cr & The Cove		1	0.82						Crist and Holden 1986
	28-Sep-99	at The Cove	391.58	1		5 [2]			7.7	10.25	DEQ, unpublished data
	02-Jun-85	immediately bel Trail Cr bridge		1					13	9.4	Crist and Holden 1986
	01-Aug-85	immediately bel Trail Cr bridge		1					17	9.4	Crist and Holden 1986
	24-Oct-85	immediately bel Trail Cr bridge		1	2 [1]				8		Crist and Holden 1986
	15-May-86	immediately bel Trail Cr bridge		1	0.46				11.5	8.2	Crist and Holden 1986
	05-Sep-86	immediately bel Trail Cr bridge		1	0.7				14		Crist and Holden 1986
	15-Nov-86	immediately bel Trail Cr bridge		1	0.84						Crist and Holden 1986
	30-Mar-87	at Trail Creek	240	1		24	10 [2]	10			Drewes 1987
	13-Apr-87	at Trail Creek	225	1		8	10 [2]	10			Drewes 1987
	04-May-87	at Trail Creek	425	1		72	10 [2]	10			Drewes 1987
	02-Jun-87	at Trail Creek	425	1		22	10	10			Drewes 1987
	15-Jun-87	at Trail Creek	325	1		20	440	20			Drewes 1987
	06-Jul-87	at Trail Creek	350	1		14	10	10			Drewes 1987
	28-Sep-99	Trail Creek bridge	368.55	1		8 [2]			11.3	8.66	DEQ, unpublished data
	21-May-90	at Morgan Bridge	730	1		89					BLM, unpublished data
	14-Aug-90	at Morgan Bridge	488	1		50					BLM, unpublished data
	08-Oct-96	ab Morgan Bridge		1	17.8				10.2		Royer and Minshall 1998
	28-Sep-99	at Morgan Bridge		1		2 [2]					DEQ, unpublished data
	16-Oct-97	Grave Creek campground		1					9.21	11.92	DEQ, unpublished data
	Oct-75-Sep-76	bel reservoir		5-6	5 [3]	48 [2]				6.8	McSorley 1977
	summer 1977	below dam		3-5	6.8 [3]	16.2 [2]			15.8	8.4	Perry 1977

Table D-1. Continued.

Waterbody	Date	Site	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (^{o}C)	Dissolved oxygen (mg/l)	Source
Blackfoot River	29-Oct-98	at Government Dam bridge	1		14 [2]					DEQ, unpublished data
	28-Sep-99	at Government Dam bridge	1		19 [2]					DEQ, unpublished data
	Oct-75-Sep-76	ab reservoir	7-8	6 [3]	55 [2]			21 [5]	7.9 [4]	McSorley 1977
	summer 1977	nr upper end of Reservoir	5-6	2.3 [3]	10.7 [2]			17	9.4	Perry 1977
	3-May-79	ab reservoir	1		19					Low 1981
	10-May-79	ab reservoir	1		32			6.5		Low 1981
	5-Jun-79	ab reservoir	1		78			16		Low 1981
	8-Aug-79	ab reservoir	1		7			20		Low 1981
	2-Oct-79	ab reservoir	1		26			11.5		Low 1981
	6-Nov-78	at Henry	1			2	4	3	11.8	DEQ, unpublished data
	20-Mar-79	at Henry	1			2	< 4	2	11.3	DEQ, unpublished data
	9-May-79	at Henry	1			6	12	8	9.2	DEQ, unpublished data
	30-Jul-79	at Henry	1			44	52			DEQ, unpublished data
	5-Nov-79	at Henry	1					2.3	10.8	DEQ, unpublished data
	19-Mar-80	at Henry	1			2	< 42	1	11.1	DEQ, unpublished data
	25-Jun-80	at Henry	1			120	6	12	8.2	DEQ, unpublished data
	20-Aug-80	at Henry	1			2	< 130	16	9.6	DEQ, unpublished data
	17-Nov-80	at Henry	1			2	< 32	1	11.9	DEQ, unpublished data
	17-Feb-81	at Henry	1			2	16	3	10.7	DEQ, unpublished data
	19-May-81	at Henry	1			14	3	13	9.2	DEQ, unpublished data
	25-Aug-81	at Henry	1			10	27	20	8.6	DEQ, unpublished data
	24-Nov-81	at Henry	1			12	66	2	12.3	DEQ, unpublished data
	24-Feb-82	at Henry	1			1	< 11	0.5	9.7	DEQ, unpublished data
	25-May-82	at Henry	1	2.6	5.5 [2]	21	5	13	7.95	DEQ, unpublished data
	4-Aug-82	at Henry	1	2.2	3 [2]	27	9	18	7.72	DEQ, unpublished data
	Mar-75	at Highway 34 bridge	1		0					Heimer 1978
	Apr-75	at Highway 34 bridge	1		0					Heimer 1978
	May-75	at Highway 34 bridge	1		144					Heimer 1978
	Jun-75	at Highway 34 bridge	1		19					Heimer 1978
	Jul-75	at Highway 34 bridge	1		0					Heimer 1978
	Aug-75	at Highway 34 bridge	1		0					Heimer 1978
	Sep-75	at Highway 34 bridge	1		95					Heimer 1978
	30-Aug-89	below Stiles	1					18.8		IDFG, unpublished data
	30-Aug-89	at Highway 34 bridge	1					19		IDFG, unpublished data
	30-Aug-89	sucker trap	1					19.5		IDFG, unpublished data
	30-Aug-89	USGS gage	1					18.2		IDFG, unpublished data
	30-Aug-89	base of lower narrows	1					18.2		IDFG, unpublished data
	30-Aug-89	Conlen Ranch	1					18.2		IDFG, unpublished data
	Oct-75-Sep-76	bel Slug Creek	5-7	5.5 [3]	37 [2]			19 [5]	8.5 [4]	McSorley 1977
	summer 1977	bel Slug Creek	5-6	1.2 [3]	6 [2]			15.7	8.8	Perry 1977
	19-Mar-80	bel Slug Creek	1			2	< 2	< 3	10.8	DEQ, unpublished data
	16-Oct-97	Slug Creek bridge	1					4.97	9.53	DEQ, unpublished data
	3-May-79	bel Dry Valley Creek	1		81					Low 1981
	10-May-79	bel Dry Valley Creek	1		55					Low 1981
	5-Jun-79	bel Dry Valley Creek	1		74					Low 1981
	8-Aug-79	bel Dry Valley Creek	1		11					Low 1981
	2-Oct-79	bel Dry Valley Creek	1		37					Low 1981
	8-May-89	bel Dry Valley Creek	1	4.9	41.9 [2]			9	10	Mariah Associates 1990
	13-Jun-89	bel Dry Valley Creek	1	2.3	2 [2]					Mariah Associates 1990
	12-Jul-89	bel Dry Valley Creek	1	1	0 [2]			16.5	7.6	Mariah Associates 1990

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (^{o}C)	Dissolved oxygen (mg/l)	Source
Blackfoot River	15-Aug-89	bel Dry Valley Creek	39.6	1	4.5	3.1 [2]			15.4		Mariah Associates 1990
	20-Sep-89	bel Dry Valley Creek	31.9	1	0.5	0.4 [2]			10.9	11	Mariah Associates 1990
	25-Oct-89	bel Dry Valley Creek	27.7	1	1.4	1.9 [2]			6.8		Mariah Associates 1990
	16-Nov-89	bel Dry Valley Creek	131	1	2	3.9 [2]			2.3	13	Mariah Associates 1990
	4-May-90	bel Dry Valley Creek	203.2	1	4	23.9 [2]			9.5	9.1	Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	bel Dry Valley Creek	46.8	1	1.5	1.6 [2]			15	10.8	Mariah Associates 1991b (cited in Rich 1999)
	19-Jul-90	bel Dry Valley Creek	35.9	1	1	2 [2]			21	10.8	Mariah Associates 1991b (cited in Rich 1999)
	17-Aug-90	bel Dry Valley Creek	29.2	1	0.9	3 [2]			18	12.3	Mariah Associates 1991b (cited in Rich 1999)
	2-Oct-90	bel Dry Valley Creek	20.9	1	1	0.8 [2]			11	11	Mariah Associates 1991b (cited in Rich 1999)
	10-Jun-91	bel Dry Valley Creek	270	1	4.5	12 [2]			18.4	10	Mariah Associates 1992b (cited in Rich 1999)
	30-Jul-91	bel Dry Valley Creek	31	1	3.6	0.7 [2]			19.5	11.1	Mariah Associates 1992b (cited in Rich 1999)
	30-Aug-91	bel Dry Valley Creek	25	1	3.3	0.4 [2]			18	7.6	Mariah Associates 1992b (cited in Rich 1999)
	26-Sep-91	bel Dry Valley Creek	16	1	2.3	0.9 [2]			10	13.1	Mariah Associates 1992b (cited in Rich 1999)
	8-Jun-92	bel Dry Valley Creek	247.9	1	4.7	12 [2]			18.6	10.2	Mariah Associates 1993b (cited in Rich 1999)
	24-Jul-92	bel Dry Valley Creek	27.6	1	3.5	0.85 [2]			19	11	Mariah Associates 1993b (cited in Rich 1999)
	14-Aug-92	bel Dry Valley Creek	9.5	1	3.2	0.3 [2]			20.6	10.5	Mariah Associates 1993b (cited in Rich 1999)
	28-Sep-92	bel Dry Valley Creek	10.8	1	2.4	0.68 [2]			14.8	12.5	Mariah Associates 1993b (cited in Rich 1999)
	30-Jun-93	bel Dry Valley Creek	236.8	1	0.4	3.1 [2]			16	11.4	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	bel Dry Valley Creek	48	1	0.35	7.86 [2]			15.6	10.2	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	bel Dry Valley Creek	38.7	1	0.35	9 [2]			13.9	11.5	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	bel Dry Valley Creek	24.7	1	0.52	1.54 [2]			12.7	13.8	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	bel Dry Valley Creek	32.4	1	1.5	1.48 [2]			7.4	14.4	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	bel Dry Valley Creek	178.9	1	1	< 13.33 [2]			19.8	10.4	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	bel Dry Valley Creek	152.4	1	1.5	2.5 [2]			17.1	13.2	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	bel Dry Valley Creek	141.5	1	5	< 8.39 [2]			22.3	11.4	Mariah Associates 1995 (cited in Rich 1999)
	23-Aug-94	bel Dry Valley Creek	132.4	1	5	< 8.81 [2]			20.1	12.8	Mariah Associates 1995 (cited in Rich 1999)
	13-Sep-94	bel Dry Valley Creek	134.5	1	6	54.56 [2]			17.4	13.3	Mariah Associates 1995 (cited in Rich 1999)
	26-Oct-94	bel Dry Valley Creek	131	1	5	< 6.38 [2]			6.5	14	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	bel Dry Valley Creek	294.5	1	15	69 [2]			8	13.2	TRC Mariah Associates 1996
	14-Jun-95	bel Dry Valley Creek	173.6	1	5	< 45 [2]			15.7	13.5	TRC Mariah Associates 1996
	11-Jul-95	bel Dry Valley Creek	54.6	1	5	< 7 [2]			18.9	13.1	TRC Mariah Associates 1996
	29-Aug-95	bel Dry Valley Creek	46.8	1	1.1	28 [2]			17.2	13.4	TRC Mariah Associates 1996
	26-Sep-95	bel Dry Valley Creek	53.8	1	0.5	< 43.6 [2]			12.2	14.6	TRC Mariah Associates 1996
	16-Oct-95	bel Dry Valley Creek	58.6	1	0.5	< 9.76 [2]			9.7	15	TRC Mariah Associates 1996
	16-Nov-95	bel Dry Valley Creek	136.6	1	0.6	1 [2]			5.2	15	TRC Mariah Associates 1996
	22-May-96	bel Dry Valley Creek	959.5	1	1				9.1	10.6	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	bel Dry Valley Creek	614.9	1	1	6.6 [2]			16.4	12.3	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	bel Dry Valley Creek	570.9	1	1				15.9	9.4	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	bel Dry Valley Creek	432.6	1	0	8 [2]			18.9	10.9	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	bel Dry Valley Creek	347.8	1	1	11 [2]			12.3	14.4	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	bel Dry Valley Creek	266.9	1	4	2.8 [2]			4	11.8	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	bel Dry Valley Creek	193.5	1	2	5.6 [2]			3.1	2.6	Mariah Associates 1997 (cited in Rich 1999)
	26-Nov-96	bel Dry Valley Creek		1		4 [2]					Rich 1999
	23-May-97	bel Dry Valley Creek	886	1	1	27.7 [2]			9.4	10.7	Rich 1999
	29-May-97	bel Dry Valley Creek		1		27 [2]					Rich 1999
	25-Jun-97	bel Dry Valley Creek	449	1	1	11.1 [2]			14.8	10.4	Rich 1999
	23-Jul-97	bel Dry Valley Creek	405	1	1	66.3 [2]			13.3	10.3	Rich 1999
	25-Aug-97	bel Dry Valley Creek	394	1	0	7.4 [2]			18.2	14.7	Rich 1999
	24-Sep-97	bel Dry Valley Creek	384	1	1	15.1 [2]			12.4	13.1	Rich 1999

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Blackfoot River	21-Oct-97	bel Dry Valley Creek	339	1	4	12.1 [2]			7.7	15 >	Rich 1999
	18-Nov-97	bel Dry Valley Creek	69	1	2	6 [2]			2.6	15 >	Rich 1999
	27-May-98	bel Dry Valley Creek	599	1	2	39 [2]			7.7	9.7	Rich 1999
	28-May-98	bel Dry Valley Creek		1		4 [2]					Rich 1999
	22-Jun-98	bel Dry Valley Creek	365	1	4	17.3 [2]			12.5	7.95	Rich 1999
	21-Jul-98	bel Dry Valley Creek	517	1	5	9 [2]			15.8	7.5	Rich 1999
	17-Aug-98	bel Dry Valley Creek	450	1	1.5	0 [2]			14.5	7.8	Rich 1999
	29-Sep-98	bel Dry Valley Creek	390	1	0.9	10 [2]			9.7	11.2	Rich 1999
	1-Oct-98	bel Dry Valley Creek		1	5.5	6 [2]					Rich 1999
	19-Oct-98	bel Dry Valley Creek	348	1	0.78	0 [2]			4.2	13.2	Rich 1999
	Nov-96-Oct-98	bel Dry Valley Creek		4	1-5	4-66 [2]				8-15	BLM et al. 1999
	8-May-89	ab Dry Valley Creek		1	17.5	46.3 [2]			10	11	Mariah Associates 1990
	13-Jun-89	ab Dry Valley Creek		1	2.4	3.8 [2]			15		Mariah Associates 1990
	12-Jul-89	ab Dry Valley Creek		1	1	0 [2]			16.5	11.2	Mariah Associates 1990
	15-Aug-89	ab Dry Valley Creek		1	3.5	2.8 [2]			16.2		Mariah Associates 1990
	20-Sep-89	ab Dry Valley Creek		1	0.5	0 [2]			11	11.7	Mariah Associates 1990
	25-Oct-89	ab Dry Valley Creek		1	1.2	1.9 [2]			5.5		Mariah Associates 1990
	16-Nov-89	ab Dry Valley Creek		1	1.5	4.6 [2]			2.4	13.2	Mariah Associates 1990
	4-May-90	ab Dry Valley Creek	203.2	1	4	25.2 [2]			9.1	9.6	Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	ab Dry Valley Creek	46.8	1	1.7	1.6 [2]			15	10.8	Mariah Associates 1991b (cited in Rich 1999)
	19-Jul-90	ab Dry Valley Creek	35.9	1	0.5	4 [2]			21	10.8	Mariah Associates 1991b (cited in Rich 1999)
	17-Aug-90	ab Dry Valley Creek	29.2	1	0.5	2 [2]			18	12.2	Mariah Associates 1991b (cited in Rich 1999)
	2-Oct-90	ab Dry Valley Creek	20.8	1	1	1.5 [2]			11	10.6	Mariah Associates 1991b (cited in Rich 1999)
	10-Jun-91	ab Dry Valley Creek	270	1	7	18 [2]			18	10.2	Mariah Associates 1992b (cited in Rich 1999)
	30-Jul-91	ab Dry Valley Creek	31	1	2.9	0 [2]			19.5	12.1	Mariah Associates 1992b (cited in Rich 1999)
	30-Aug-91	ab Dry Valley Creek	25	1	2.5	0 [2]			18	7.4	Mariah Associates 1992b (cited in Rich 1999)
	26-Sep-91	ab Dry Valley Creek	16	1	2.6	0 [2]			10.2	9.8	Mariah Associates 1992b (cited in Rich 1999)
	8-Jun-92	ab Dry Valley Creek	236.6	1	6.9	17 [2]			18.2	10	Mariah Associates 1993b (cited in Rich 1999)
	24-Jul-92	ab Dry Valley Creek	26.7	1	3	0.26 [2]			19	11.8	Mariah Associates 1993b (cited in Rich 1999)
	14-Aug-92	ab Dry Valley Creek	9.5	1	2.6	0 [2]			21	10.3	Mariah Associates 1993b (cited in Rich 1999)
	28-Sep-92	ab Dry Valley Creek	10.8	1	2.6	0 [2]			15	11.6	Mariah Associates 1993b (cited in Rich 1999)
	30-Jun-93	ab Dry Valley Creek	284.3	1	0.25	4.99 [2]			14.6	11.4	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	ab Dry Valley Creek	43	1	0.33	0 [2]			16.9	10.2	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	ab Dry Valley Creek	37	1	0.6	12 [2]			13.5	11.6	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	ab Dry Valley Creek	23	1	0.57	0.73 [2]			16.4	14.2	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	ab Dry Valley Creek	29.6	1	0.9	0 [2]				13.8	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	ab Dry Valley Creek	173.9	1	1.5	11.3 [2]			19	10.1	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	ab Dry Valley Creek	149.4	1	1	8.16 [2]			19.2	13.2	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	ab Dry Valley Creek	141.5	1	5	< 14.67 [2]			22.8	10.4	Mariah Associates 1995 (cited in Rich 1999)
	23-Aug-94	ab Dry Valley Creek	131.4	1	5	<			21.3	12.9	Mariah Associates 1995 (cited in Rich 1999)
	13-Sep-94	ab Dry Valley Creek	132.7	1	5	14.88 [2]			18.6	13	Mariah Associates 1995 (cited in Rich 1999)
	26-Oct-94	ab Dry Valley Creek	130	1	5	< 8.64 [2]			6.6	14.5	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	ab Dry Valley Creek	273.1	1	17	77 [2]			7.9	13.3	TRC Mariah Associates 1996
	14-Jun-95	ab Dry Valley Creek	166.2	1	5	31 [2]			16.1	10.5	TRC Mariah Associates 1996
	11-Jul-95	ab Dry Valley Creek	50.8	1	0.6	10 [2]			18.2	11.6	TRC Mariah Associates 1996
	29-Aug-95	ab Dry Valley Creek	44.4	1	1	21 [2]			16.2	13.6	TRC Mariah Associates 1996
	26-Sep-95	ab Dry Valley Creek	52.4	1	0.5	< 12.3 [2]			12	11.6	TRC Mariah Associates 1996
	16-Oct-95	ab Dry Valley Creek	55.6	1	0.5	< 13.9 [2]			9.6	15	TRC Mariah Associates 1996
	16-Nov-95	ab Dry Valley Creek	134.2	1	0.6	1 [2]			5.5	15	TRC Mariah Associates 1996
	22-May-96	ab Dry Valley Creek	917.7	1	1	1 <[2]			9.3	11.8	Mariah Associates 1997 (cited in Rich 1999)

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Blackfoot River	24-Jun-96	ab Dry Valley Creek	607.8	1	1	5.6 [2]			16.9	11.6	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	ab Dry Valley Creek	567.2	1	1				15.9	11	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	ab Dry Valley Creek	429.9	1	0	9 [2]			21.4	11.4	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	ab Dry Valley Creek	343.5	1	2	19 [2]			12.6	15	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	ab Dry Valley Creek	263.3	1	2	3.6 [2]			4	12.4	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	ab Dry Valley Creek	189.9	1	1.5	6.3 [2]			3.2	12.4	Mariah Associates 1997 (cited in Rich 1999)
	23-May-97	ab Dry Valley Creek	838	1	2	28.9 [2]			9.7	12.4	Rich 1999
	29-May-97	ab Dry Valley Creek		1		25 [2]					Rich 1999
	25-Jun-97	ab Dry Valley Creek	438	1	1	5.5 [2]			14.3	5.6	Rich 1999
	23-Jul-97	ab Dry Valley Creek	397	1	1.5	54.3 [2]			13.1	10.8	Rich 1999
	25-Aug-97	ab Dry Valley Creek	388	1	2	6.9 [2]			18.4	14.6	Rich 1999
	24-Sep-97	ab Dry Valley Creek	377	1	1	10.9 [2]			12.6	13.2	Rich 1999
	21-Oct-97	ab Dry Valley Creek	338	1	1	11.6 [2]			7.8	14.8	Rich 1999
	18-Nov-97	ab Dry Valley Creek	68	1	1	6 [2]			2.8		Rich 1999
	27-May-98	ab Dry Valley Creek		1	0.5	45 [2]			8.6	8.8	Rich 1999
	28-May-98	ab Dry Valley Creek		1		34 [2]					Rich 1999
	22-Jun-98	ab Dry Valley Creek		1	4	17.3 [2]			25	8.6	Rich 1999
	21-Jul-98	ab Dry Valley Creek		1	4	5 [2]			16.4	7.04	Rich 1999
	17-Aug-98	ab Dry Valley Creek		1	1.5	2 [2]			15.6	8.2	Rich 1999
	29-Sep-98	ab Dry Valley Creek		1	0.7	5 [2]			9.6	10.4	Rich 1999
	1-Oct-98	ab Dry Valley Creek		1	4.7						Rich 1999
	19-Oct-98	ab Dry Valley Creek		1	0.93	0 [2]			4	14.1	Rich 1999
	May-97-Oct-98	ab Dry Valley Creek		3	1-4	2-54 [2]				6-15	BLM et al. 1999
	Aug-74-Jul-75	bel Forest Service boundary		39-40		29.5			14.4 [5]		Platts and Primbs 1976
	summer 1977	between Dry Valley & Angus creeks		5-6	0.9 [3]	5.2 [2]			15.3	10.2	Perry 1977
	9-May-79	at the Narrows		1			3	12	7	10	DEQ, unpublished data
	30-Jul-79	at the Narrows		1			60	24			DEQ, unpublished data
	5-Nov-79	at the Narrows	21	1					3.2	11	DEQ, unpublished data
	25-Jun-80	at the Narrows		1			26	16	14.5	8.8	DEQ, unpublished data
	20-Aug-80	at the Narrows	111.86	1			2	< 2	15	10.2	DEQ, unpublished data
	13-Nov-80	at the Narrows	106.5	1			2	< 28	5	11.8	DEQ, unpublished data
	17-Feb-81	at the Narrows	90.9	1			2	< 2	< 2	10.2	DEQ, unpublished data
	21-May-81	at the Narrows	289	1			83	65	6	9.6	DEQ, unpublished data
	25-Aug-81	at the Narrows	53.6	1			10	300	16	9.1	DEQ, unpublished data
	24-Nov-81	at the Narrows		1			4	7	3	12	DEQ, unpublished data
	25-May-82	at the Narrows		1	7.7	36 [2]	45	20	11.5	9.4	DEQ, unpublished data
	4-Aug-82	at the Narrows		1	1.8	1 [2]	45	15	15.8	8.7	DEQ, unpublished data
	1970-1974	bel Angus Creek		1-15	29 [3]				3.9	14	Platts and Primbs 1976
	1970-1974	ab Angus Creek		2-15	33 [3]				5.6	14	Platts and Primbs 1976
	Spring, 1970-1976	nr Angus Creek		unk[6]	4.2	49			4.0		Platts and Martin 1978
	Summer, 1970-1976	nr Angus Creek		unk	2.1	17			10.0		Platts and Martin 1978
	Fall, 1970-1976	nr Angus Creek		unk	1.0	7			7.0		Platts and Martin 1978
	Winter, 1970-1976	nr Angus Creek		unk	1.1	6			1.5		Platts and Martin 1978
	4-Jun-98	at Stocking Ranch	353	1		30 [2]					DEQ, unpublished data
	6-Jul-98	at Stocking Ranch	155	1		5 [2]					DEQ, unpublished data
	16-Jul-98	at Stocking Ranch	134.1 [7]	1		3 [2]					DEQ, unpublished data
	22-Jul-98	at Stocking Ranch	101.3 [7]	1		1 [2]					DEQ, unpublished data
	14-Aug-98	at Stocking Ranch	81.7 [7]	1		2 [2]					DEQ, unpublished data
	27-Sep-98	at Stocking Ranch	67.7	1		1 <[2]					DEQ, unpublished data
	Oct-75-Sep-76	bel Diamond Creek		6-7	4.3 [3]	49 [2]			16 [5]	8.8 [4]	McSorley 1977

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (^{o}C)	Dissolved oxygen (mg/l)	Source
Blackfoot River	summer 1977	confluence of Lanes & Diamond creeks		5-6	0.9 [3]	5.5 [2]			14.7	9.8	Perry 1977
	6-Jul-98	confluence of Lanes & Diamond creeks	79.6	1		2 [2]					DEQ, unpublished data
	16-Jul-98	confluence of Lanes & Diamond creeks	78.3	1		8 [2]					DEQ, unpublished data
	22-Jul-98	confluence of Lanes & Diamond creeks	69.4	1		3 [2]					DEQ, unpublished data
	14-Aug-98	confluence of Lanes & Diamond creeks	48.9	1		3 [2]					DEQ, unpublished data
	27-Sep-98	confluence of Lanes & Diamond creeks	37.4	1		2 [2]					DEQ, unpublished data
Reservation Canal	28-Sep-99	Weeding Lane bridge		1		[2]			9.7	8.04	DEQ, unpublished data
Lincoln Creek	1975-1977	near mouth		3	7 [1]				6.1	9	Balmer and Noble 1979
	1975-1977	recorder station		24	85 [1]				20.0	8	Balmer and Noble 1979
	1975, 1976	Dry Hollow Road crossing		2	2 [1]				11.1		Balmer and Noble 1979
Cold Creek	1975-1977	Lincoln Creek Road crossing		24	37 [1]				7.2	10	Balmer and Noble 1979
Garden Creek	1975-1977	power line crossing		22	89 [1]				8.3	9	Balmer and Noble 1979
Wolverine Creek	3-Aug-94	mouth	3.83	1					23.0		BLM, unpublished data
	15-Apr-98	nr mouth	19.7	1		97 [2]					DEQ, unpublished data
	24-Apr-98	nr mouth	35	1		964 [2]					DEQ, unpublished data
	6-May-98	nr mouth	44.5	1		602 [2]					DEQ, unpublished data
	15-May-98	nr mouth	42.5	1		245 [2]					DEQ, unpublished data
	20-May-98	nr mouth	39	1		203 [2]					DEQ, unpublished data
	27-May-98	nr mouth	42	1		531 [2]					DEQ, unpublished data
	2-Jun-98	nr mouth	33.7	1		91 [2]					DEQ, unpublished data
	9-Jun-98	nr mouth	27.1	1		54 [2]					DEQ, unpublished data
	17-Jun-98	nr mouth	29	1		53 [2]					DEQ, unpublished data
	29-Oct-98	nr mouth	8.6	1		2 [2]					DEQ, unpublished data
	28-Sep-99	nr mouth	10.83	1		2 [2]			7.9	9.31	DEQ, unpublished data
	19-Nov-86	Blackfoot River Road		1		10					Drewes 1987
	17-Feb-87	Blackfoot River Road	7.8	1			10 [2]	20			Drewes 1987
	2-Mar-87	Blackfoot River Road	19.2	1		4,195	10 [2]	10 [2]			Drewes 1987
	16-Mar-87	Blackfoot River Road	13.5	1		252	10 [2]	10 [2]			Drewes 1987
	30-Mar-87	Blackfoot River Road	9.6	1		283	10 [2]	10 [2]			Drewes 1987
	13-Apr-87	Blackfoot River Road	20.9	1		159	10 [2]	10			Drewes 1987
	4-May-87	Blackfoot River Road	10.6	1		52	250	70			Drewes 1987
	19-May-87	Blackfoot River Road	15.1	1		244	350	1900			Drewes 1987
	2-Jun-87	Blackfoot River Road	16.3	1		90	50	40			Drewes 1987
	15-Jun-87	Blackfoot River Road	6.3	1		159	30	60			Drewes 1987
	6-Jul-87	Blackfoot River Road	0.3	1		2	200	350			Drewes 1987
	19-Nov-86	HH A-Frame Home		1			30	10			Drewes 1987
	17-Feb-87	HH A-Frame Home	7	1			10 [2]	40			Drewes 1987
	2-Mar-87	HH A-Frame Home	11.5	1		4	300	7100			Drewes 1987
	16-Mar-87	HH A-Frame Home	9.1	1		2	40	40			Drewes 1987
	30-Mar-87	HH A-Frame Home	10.2	1		10	10 [2]	10			Drewes 1987
	13-Apr-87	HH A-Frame Home	18.8	1		6	10	10			Drewes 1987
	4-May-87	HH A-Frame Home	19.1	1		14	10 [2]	60			Drewes 1987
	19-May-87	HH A-Frame Home	5.3	1		18	40	90			Drewes 1987
	2-Jun-87	HH A-Frame Home	6.9	1		10	170	500			Drewes 1987
	15-Jun-87	HH A-Frame Home	6.1	1		2	210	2000			Drewes 1987
	6-Jul-87	HH A-Frame Home	6.2	1		2	< 130	610			Drewes 1987
	15-Apr-98	bel narrows	10.53	1		43 [2]					DEQ, unpublished data
	3-Aug-94	lower BLM boundary	0.36	1					22.0		BLM, unpublished data
	25-Jul-83	upper BLM boundary	5.4	1					15.0	8.0	BLM, unpublished data
	3-Aug-94	upper BLM boundary	1.12	1					24.0		BLM, unpublished data

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Jones Creek	19-Nov-86	mouth		1		22	90	50			Drewes 1987
	17-Feb-87	mouth	2.9	1			10 [2]	10			Drewes 1987
	2-Mar-87	mouth	2.6	1		920	10 [2]	780			Drewes 1987
	16-Mar-87	mouth	1.7	1		2608	40	220			Drewes 1987
	30-Mar-87	mouth	0.4	1		218	10 [2]	30			Drewes 1987
	13-Apr-87	mouth	1.2	1		1260	10 [2]	20			Drewes 1987
	4-May-87	mouth	3.8	1		358	160	200			Drewes 1987
	19-May-87	mouth	1.7	1		1810	800	3000			Drewes 1987
	2-Jun-87	mouth	0.9	1		218	470	550			Drewes 1987
	15-Jun-87	mouth	0.6	1		54	610	2200			Drewes 1987
	6-Jul-87	mouth	0.7	1		12	2100	25000			Drewes 1987
Cedar Creek	19-Nov-86	Blackfoot River Road		1		62	10 [2]	50			Drewes 1987
	17-Feb-87	Blackfoot River Road	2.8	1			10 [2]	10			Drewes 1987
	2-Mar-87	Blackfoot River Road	8.3	1		23860	60	4500			Drewes 1987
	16-Mar-87	Blackfoot River Road	2.1	1		224	30	210			Drewes 1987
	30-Mar-87	Blackfoot River Road	1.5	1		756	290	70			Drewes 1987
	13-Apr-87	Blackfoot River Road	4.2	1		98	20	20			Drewes 1987
	4-May-87	Blackfoot River Road	2.6	1		48	330	60			Drewes 1987
	19-May-87	Blackfoot River Road	0.6	1		42	200	1200			Drewes 1987
	2-Jun-87	Blackfoot River Road	1.2	1		52	110	290			Drewes 1987
	15-Jun-87	Blackfoot River Road	2.4	1		52	290	240			Drewes 1987
	6-Jul-87	Blackfoot River Road	2.4	1		28	160	420			Drewes 1987
	28-Sep-99	Blackfoot River Road	1.08	1		12 [2]			10.1	10.25	DEQ, unpublished data
	16-Mar-87	Cattlemens Assoc. gate	1.9	1		182	10 [2]	10 [2]			Drewes 1987
	30-Mar-87	Cattlemens Assoc. gate	1.4	1		1036	10 [2]	30			Drewes 1987
	13-Apr-87	Cattlemens Assoc. gate	1.4	1		90	10 [2]	10 [2]			Drewes 1987
	4-May-87	Cattlemens Assoc. gate	1.3	1		106	3200	110			Drewes 1987
	19-May-87	Cattlemens Assoc. gate	1.1	1		150	1400	680			Drewes 1987
	2-Jun-87	Cattlemens Assoc. gate	0.9	1		38	540	470			Drewes 1987
	15-Jun-87	Cattlemens Assoc. gate	1.2	1		30	1300	750			Drewes 1987
	6-Jul-87	Cattlemens Assoc. gate	0.8	1		38	490	880			Drewes 1987
	16-Mar-87	Cattlemens Assoc. cabin	0.9	1		66	10 [2]	10 [2]			Drewes 1987
	15-Jun-87	Cattlemens Assoc. cabin	0.6	1		94	470	1700			Drewes 1987
Wood Creek	1975-1977	Portneuf Presto Trail crossing		12	10 [1]				11.7	9	Balmer and Noble 1979
Short Creek	1975, 1976	Portneuf Presto Trail crossing		5	5 [1]				12.2	9	Balmer and Noble 1979
Miner Creek	19-Nov-86	mouth		1		110	120	70			Drewes 1987
	16-Mar-87	mouth	0.2	1		46	10	20			Drewes 1987
	30-Mar-87	mouth	2.6	1		80	10 [2]	10 [2]			Drewes 1987
	13-Apr-87	mouth	1.5	1		14	20	10			Drewes 1987
	4-May-87	mouth	2.4	1		34	10 [2]	30			Drewes 1987
	19-May-87	mouth	3	1		48	390	270			Drewes 1987
	2-Jun-87	mouth	1.9	1		320	9600	610			Drewes 1987
	15-Jun-87	mouth	4.2	1		12	90	140			Drewes 1987
	6-Jul-87	mouth	3.4	1		2	< 160	210			Drewes 1987
	28-Sep-99	Blackfoot River Road	2.43	1		3 [2]			7.9	9.24	DEQ, unpublished data
Beaver Creek	21-Jun-76	Portneuf Presto Trail crossing		1	3 [1]				15.0	8	Balmer and Noble 1979
	28-Sep-99	nr mouth	0.47	1		8 [2]					DEQ, unpublished data
Trail Creek	28-Sep-99	at bridge	0.2	1		36 [2]			6.9	8.93	DEQ, unpublished data

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Brush Creek	30-Apr-98	bel confluence of Rawlins Creek	97.3	1		144 [2]					DEQ, unpublished data
	6-May-98	bel confluence of Rawlins Creek	75.8	1		101 [2]					DEQ, unpublished data
	15-May-98	bel confluence of Rawlins Creek	62.6	1		54 [2]					DEQ, unpublished data
	20-May-98	bel confluence of Rawlins Creek	46.1	1		57 [2]					DEQ, unpublished data
	27-May-98	bel confluence of Rawlins Creek	41.5	1		32 [2]					DEQ, unpublished data
	2-Jun-98	bel confluence of Rawlins Creek	36.8	1		30 [2]					DEQ, unpublished data
	9-Jun-98	bel confluence of Rawlins Creek	41.2	1		31 [2]					DEQ, unpublished data
	29-Oct-98	bel confluence of Rawlins Creek	16	1		33 [2]					DEQ, unpublished data
	28-Sep-99	bel confluence of Rawlins Creek	21.81	1		2 [2]					DEQ, unpublished data
Rawlins Creek	29-Oct-98	at mouth		1		6 [2]					DEQ, unpublished data
Deadman Creek	1975-1977	Portneuf Presto Trail crossing		10	9 [1]				13.9	9	Balmer and Noble 1979
Deadman/Supon creeks	28-Sep-99	bel confluence of the two creeks	0.44	1		36 [2]					DEQ, unpublished data
Grave Creek	28-Sep-99	at road crossing west of campground	0.17	1		5 [2]					DEQ, unpublished data
Negro Creek	3-Aug-94	nr mouth	0.04	1					17		BLM, unpublished data
	3-Aug-94	ab exclosure	0.06	1					14		BLM, unpublished data
Corral Creek	6-May-98	nr Blackfoot Reservoir Road bridge	89.4	1		83 [2]					DEQ, unpublished data
	15-May-98	nr Blackfoot Reservoir Road bridge	88.8	1		57 [2]					DEQ, unpublished data
	20-May-98	nr Blackfoot Reservoir Road bridge	55.3 ~	1		57 [2]					DEQ, unpublished data
	27-May-98	nr Blackfoot Reservoir Road bridge	64.6 ~	1		33 [2]					DEQ, unpublished data
	2-Jun-98	nr Blackfoot Reservoir Road bridge	41.9 ~	1		45 [2]					DEQ, unpublished data
	9-Jun-98	nr Blackfoot Reservoir Road bridge	51.7	1		24 [2]					DEQ, unpublished data
	15-Jul-98	nr Blackfoot Reservoir Road bridge	15.2 ~	1		20 [2]					DEQ, unpublished data
	29-Oct-98	nr Blackfoot Reservoir Road bridge	9.3	1		4 [2]					DEQ, unpublished data
	28-Sep-99	bel bridge crossing	9.7	1		2 <[2]					DEQ, unpublished data
Meadow Creek	summer 1977	nr mouth		5	2.9 [3]	7.4 [2]			17.9	10.3	Perry 1977
	6-Nov-78	at mouth	16	1			6	6	2.5	11.1	DEQ, unpublished data
	16-May-79	at mouth		1			32	5	14	7.4	DEQ, unpublished data
	30-Jul-79	at mouth		1			52	64			DEQ, unpublished data
	9-Nov-79	at mouth	28.2	1					1.5	10.4	DEQ, unpublished data
	19-Mar-80	at mouth	18.5	1			2	< 120	0.5	11.7	DEQ, unpublished data
	25-Jun-80	at mouth		1			50	24	18	7	DEQ, unpublished data
	20-Aug-80	at mouth	8.79	1			2	< 60	13.5	9.7	DEQ, unpublished data
	17-Nov-80	at mouth	5.5	1			100	22	0	11.3	DEQ, unpublished data
	17-Feb-81	at mouth		1			2	16	1	9.4	DEQ, unpublished data
	19-May-81	at mouth	16	1			18	2	14	12.5	DEQ, unpublished data
	25-Aug-81	at mouth	8.96	1			80	41	20	8.8	DEQ, unpublished data
	24-Nov-81	at mouth		1			9	21	2	12.3	DEQ, unpublished data
	24-Feb-82	at mouth		1			6	46	0	8.5	DEQ, unpublished data
	25-May-82	at mouth		1	6.3	37 [2]	14	5	15.8	8.2	DEQ, unpublished data
	4-Aug-82	at mouth		1	1.5	2 [2]	180	23	19.2	7.6	DEQ, unpublished data
Little Blackfoot River	summer 1977	nr mouth		5-6	1 [3]	7.4 [2]			17.1	9.6	Perry 1977
	6-Nov-78	at mouth	38	1			4	4	13	5.7	DEQ, unpublished data
	20-Mar-79	at mouth		1			2	2	< 12	10.3	DEQ, unpublished data
	9-May-79	at mouth		1			36	24	12	8.8	DEQ, unpublished data
	30-Jul-79	at mouth		1			51	140			DEQ, unpublished data
	5-Nov-79	at mouth	40.4	1					12.9	12.5	DEQ, unpublished data
	19-Mar-80	at mouth	9.46	1			2	< 40	11.5	10.6	DEQ, unpublished data
	25-Jun-80	at mouth	8	1			120	30	10	8.7	DEQ, unpublished data
	20-Aug-80	at mouth	15.63	1			2	< 58	15.5	8.3	DEQ, unpublished data
	17-Nov-80	at mouth	13.2	1			86	100	7	8.1	DEQ, unpublished data

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Little Blackfoot River	17-Feb-81	at mouth	10.8	1			2	< 14	12	9.2	DEQ, unpublished data
	17-Feb-81	at mouth		1			2	< 24			DEQ, unpublished data
	19-May-81	at mouth	13.6	1			33		15	8.8	DEQ, unpublished data
	25-Aug-81	at mouth	8.4	1			230	410	17	8.3	DEQ, unpublished data
	24-Nov-81	at mouth		1			7	40	10.5	7.5	DEQ, unpublished data
	24-Feb-82	at mouth		1			1	2	9	8	DEQ, unpublished data
	25-May-82	at mouth		1	0.7	5.1 [2]	6	3	15	8.75	DEQ, unpublished data
	4-Aug-82	at mouth		1	0.8	3 [2]	74	15	16.5	7.7	DEQ, unpublished data
	4-Jun-86	at IDFG trap		unk					20 [5]		Heimer et al. 1987
	5-Jun-86	at IDFG trap		unk					20 [5]		Heimer et al. 1987
	6-Jun-86	at IDFG trap		unk					20 [5]		Heimer et al. 1987
	7-Jun-86	at IDFG trap		unk					20 [5]		Heimer et al. 1987
	14-Jun-86	at IDFG trap		unk					18 [5]		Heimer et al. 1987
	21-Jun-86	at IDFG trap		unk					20 [5]		Heimer et al. 1987
	22-Jun-86	at IDFG trap		unk					19.7 [5]		Heimer et al. 1987
	25-Aug-86	above Dredge Spring		1					17	19.8	DEQ, unpublished data
	9-May-79	bel ponds	27	1		31			7		Low 1981
	5-Jun-79	bel ponds	5.2	1		13			16.5		Low 1981
	8-Aug-79	bel ponds	3.6	1		12			7		Low 1981
	2-Oct-79	bel ponds	3.2	1					9.5		Low 1981
	9-May-79	ab ponds	29	1		19			6		Low 1981
	5-Jun-79	ab ponds	4.4	1		36			15		Low 1981
Trail Creek	8-May-79	nr North Trail mine	3.9	1		11			10		Low 1981
	5-Jun-79	nr North Trail mine	5.9	1		42			22		Low 1981
	7-Aug-79	nr North Trail mine	2.7	1		17			20		Low 1981
	2-Oct-79	nr North Trail mine	3.1	1		1	<		11.5		Low 1981
	Oct-80	middle	3	1	0.4	20			4	8.7	USDA and USDI 1981
	Oct-80	upper	2.99	1	2.3	20			4	8.8	USDA and USDI 1981
Slug Creek	Oct-80	lower	7.43	1	7.5	20			5	10.8	USDA and USDI 1981
	Oct-80	middle	8.7	1	2.5	20			6	10.6	USDA and USDI 1981
	Oct-80	upper	3.76	1	3.2	20			9	10.6	USDA and USDI 1981
Goodheart Creek	May-92		0.063	1		24 [2]			13	9.5	Mariah Associates 1993a
	Jun-92		0.05	1	0.87	2 <[2]			9	11	Mariah Associates 1993a
	Jul-92		0.086	1	0.9	4 [2]			15	10	Mariah Associates 1993a
Dry Valley Creek	8-May-79	nr mouth	15	1		19			5.5		Low 1981
	6-Jun-79	nr mouth	1.7	1		60			13.5		Low 1981
	9-Aug-79	nr mouth	0.54	1		33			22		Low 1981
	3-Oct-79	nr mouth	0.66	1		48			14		Low 1981
	8-May-89	lowest	1.4	1	2.2	0.4 [2]			12	13	Mariah Associates 1990
	13-Jun-89	lowest	2.6	1	1.6	0 [2]			15.6		Mariah Associates 1990
	12-Jul-89	lowest	2	1	1.4	0 [2]			14.4	7.7	Mariah Associates 1990
	15-Aug-89	lowest	2.6	1	6.8	3.6 [2]			16.2		Mariah Associates 1990
	20-Sep-89	lowest	2	1	0.5	0.4 [2]			10	11	Mariah Associates 1990
	25-Oct-89	lowest	2.2	1	0.5	0 [2]			4.8		Mariah Associates 1990
	16-Nov-89	lowest		1	2	2.9 [2]			2.5	14.2	Mariah Associates 1990
	4-May-90	lowest	7	1	3				7.5	10.6	Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	lowest	3.3	1	1				13.5	11.6	Mariah Associates 1991b (cited in Rich 1999)
	19-Jul-90	lowest		1	1.3				21	8	Mariah Associates 1991b (cited in Rich 1999)
	17-Aug-90	lowest		1	1				18	7	Mariah Associates 1991b (cited in Rich 1999)
	2-Oct-90	lowest		1	1.9				12	10.4	Mariah Associates 1991b (cited in Rich 1999)

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Dry Valley Creek	10-Jun-91	lowest	12.7	1	3.2	2 [2]			19.9	7.8	Mariah Associates 1992b (cited in Rich 1999)
	30-Jul-91	lowest	1.1	1	5	2 [2]			20.2	8.8	Mariah Associates 1992b (cited in Rich 1999)
	26-Sep-91	lowest		1	2.4	12.6 [2]			7.9	12.2	Mariah Associates 1992b (cited in Rich 1999)
	8-Jun-92	lowest	11.3	1	3.3	3 [2]			19.5	8	Mariah Associates 1993b (cited in Rich 1999)
	24-Jul-92	lowest	0.9	1	5.3	1.56 [2]			20	8.4	Mariah Associates 1993b (cited in Rich 1999)
	30-Jun-93	lowest	2.92	1	0.4	0.71 [2]			18	11.4	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	lowest	5.06	1	0.65	5.09 [2]			18.3	9.1	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	lowest	1.7	1	0.4	1 [2]			10	9.8	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	lowest	1.76	1	0.74	25.13 [2]			16.1	11.6	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	lowest	2.8	1	7.1	28.72 [2]			8.2	11.1	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	lowest	4.7	1	2	20.49 [2]			22.6	8	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	lowest	2.9	1	5.5	30.11 [2]			15.8	9.6	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	lowest		1	5	< 15.97 [2]			23.7	3.6	Mariah Associates 1995 (cited in Rich 1999)
	23-Aug-94	lowest	1.1	1	6	33.16 [2]			20.5	11	Mariah Associates 1995 (cited in Rich 1999)
	13-Sep-94	lowest	1.8	1	5	< 11.43 [2]			14	11.4	Mariah Associates 1995 (cited in Rich 1999)
	26-Oct-94	lowest	1.3	1					6	14.6	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	lowest	21.4	1	5	< 4 [2]			10.4	12.5	TRC Mariah Associates 1996
	14-Jun-95	lowest	7.4	1	5	< 9 [2]			20.2	10.8	TRC Mariah Associates 1996
	11-Jul-95	lowest	3.8	1	1.5	9 [2]			18.9	9.7	TRC Mariah Associates 1996
	29-Aug-95	lowest	2.4	1	2.2	30 [2]			16	11	TRC Mariah Associates 1996
	26-Sep-95	lowest	1.4	1	5	< 8.3 [2]			11	2.8	TRC Mariah Associates 1996
	16-Oct-95	lowest	3	1	1.4	7 [2]			9.2	12.9	TRC Mariah Associates 1996
	16-Nov-95	lowest	2.4	1	1.1	6.4 [2]			5.8	15	TRC Mariah Associates 1996
	22-May-96	lowest	41.8	1	4	10.5 [2]			11.3	11.1	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	lowest	7.1	1	4	9.8 [2]			20.3	8.1	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	lowest	3.7	1	4	10.5 [2]			16.2	9.3	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	lowest	2.7	1	1	15 [2]			21.8	8.4	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	lowest	4.3	1	2	8 [2]			11.6	13.3	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	lowest	3.6	1	2.8	14.3 [2]			4.5	11.8	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	lowest	3.6	1	2	4.3 [2]			3.1	12.2	Mariah Associates 1997 (cited in Rich 1999)
	23-May-97	lowest	27.9	1	1	11.8 [2]			14.9	12.5	Rich 1999
	29-May-97	lowest		1		6 [2]					Rich 1999
	25-Jun-97	lowest	11.3	1	2	14.5 [2]			19.3	7.4	Rich 1999
	23-Jul-97	lowest	7.4	1	2	66.2 [2]			12.9	9.8	Rich 1999
	25-Aug-97	lowest	6.4	1	3	1.4 [2]			20.2	14.2	Rich 1999
	24-Sep-97	lowest	6.3	1	2	5.4 [2]			13	13.1	Rich 1999
	21-Oct-97	lowest	6.3	1	4	28.7 [2]				15	Rich 1999
	18-Nov-97	lowest	1.3	1	0	4 [2]			4.3		Rich 1999
	27-May-98	lowest	10.2	1	0.4	10 [2]			10.6	8.4	Rich 1999
	28-May-98	lowest		1		6 [2]					Rich 1999
	22-Jun-98	lowest	6.7	1		10 [2]			11.6	8.25	Rich 1999
	22-Jul-98	lowest	2.2	1	10	9 [2]			12.4	8	Rich 1999
	18-Aug-98	lowest	1.94	1	1.5	4 [2]			12.5	8.2	Rich 1999
	29-Sep-98	lowest	3.21	1	2	4 [2]			7.6	11.2	Rich 1999
	1-Oct-98	lowest		1	4.2						Rich 1999
	19-Oct-98	lowest	2.18	1	3.3	10 [2]			2.1	14	Rich 1999
	4-Jun-98	nr mouth	6.8	1		22 [2]					DEQ, unpublished data
	6-Jul-98	nr mouth	4.3	1		65 [2]					DEQ, unpublished data
	16-Jul-98	nr mouth		1		9 [2]					DEQ, unpublished data
	22-Jul-98	nr mouth		1		18 [2]					DEQ, unpublished data

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Dry Valley Creek	14-Aug-98	nr mouth		1		5 [2]					DEQ, unpublished data
	May-97-Oct-98	nr mouth		3	1-4	1-66 [2]				7-15	BLM et al. 1999
	May-77	lower		1	2.3 [3]	7 [2]			11	3.7	Aware 1979 (cited in Rich 1999)
	Sep-77	lower		1	0.6 [3]	11 [2]			14	1	Aware 1979 (cited in Rich 1999)
	May-78	lower		1	13.8 [3]	15 [2]			9	5.5	Aware 1979 (cited in Rich 1999)
	Oct-78	lower	0.7	1	0.9 [3]	7 [2]			10.6	1	Aware 1979 (cited in Rich 1999)
	May-79	lower	6	1	2.6 [3]	7 [2]			14	4.7	Aware 1979 (cited in Rich 1999)
	8-May-89	lower	4.1	1	1.3	0.8 [2]			11	11	Mariah Associates 1990
	13-Jun-89	lower	1.5	1	1.9	2 [2]			14.4		Mariah Associates 1990
	12-Jul-89	lower	0.9	1	0.2	0 [2]				7.8	Mariah Associates 1990
	15-Aug-89	lower	0.1 <	1	7.2	2.1 [2]			18.9		Mariah Associates 1990
	20-Sep-89	lower	0.1 <	1	1	0.8 [2]			10.9	7	Mariah Associates 1990
	25-Oct-89	lower	0.1 <	1	0.5	7.5 [2]			9.3		Mariah Associates 1990
	16-Nov-89	lower		1	3.5	2.9 [2]			7.4	7.8	Mariah Associates 1990
	4-May-90	lower	2.8	1	6.2	4.6 [2]			10	8.3	Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	lower	0.5	1	4.5	7.1 [2]			13.5	8.4	Mariah Associates 1991b (cited in Rich 1999)
	19-Jul-90	lower		1	1.2	12 [2]			21	7.6	Mariah Associates 1991b (cited in Rich 1999)
	17-Aug-90	lower		1	1	5 [2]			20	6.2	Mariah Associates 1991b (cited in Rich 1999)
	2-Oct-90	lower		1	5.3	3.2 [2]			14	10.2	Mariah Associates 1991b (cited in Rich 1999)
	10-Jun-91	lower	5.5	1	3.4	5.6 [2]			18.9	7.2	Mariah Associates 1992b (cited in Rich 1999)
	30-Jul-91	lower		1	6.2	5.3 [2]			23.3	7	Mariah Associates 1992b (cited in Rich 1999)
	30-Aug-91	lower		1	6.4	8.5 [2]			23.5	6.6	Mariah Associates 1992b (cited in Rich 1999)
	26-Sep-91	lower		1	8.3	15.3 [2]			8.9	7.2	Mariah Associates 1992b (cited in Rich 1999)
	8-Jun-92	lower	3.8	1	3.4	4 [2]			18.7	7.3	Mariah Associates 1993b (cited in Rich 1999)
	24-Jul-92	lower	0	1	6.4	3.25 [2]			22.5	7.3	Mariah Associates 1993b (cited in Rich 1999)
	30-Jun-93	lower	2.54	1	0.65	1.46 [2]			17.2	11.5	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	lower	2.11	1	0.5	2.12 [2]			18.7	7.6	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	lower		1	0.35	5 [2]			11.8	8	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	lower		1	0.52	5.04 [2]			13.2	10.7	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	lower		1	1.2	2.88 [2]			11.8	9.4	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	lower		1	1	< 8.73 [2]			18.1	7.2	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	lower		1	4	21.58 [2]			17	8.2	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	lower		1					19.3	6.1	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	lower	25.5	1	5	< 4 [2]			9.9	14.8	TRC Mariah Associates 1996
	14-Jun-95	lower	18.1	1	5	< 9 [2]			19.7	10.8	TRC Mariah Associates 1996
	11-Jul-95	lower		1	4.1	32 [2]			18	8.8	TRC Mariah Associates 1996
	29-Aug-95	lower		1	0.8	22 [2]			11.9	8	TRC Mariah Associates 1996
	26-Sep-95	lower		1	5	< 6.6 [2]			11	15.4	TRC Mariah Associates 1996
	16-Oct-95	lower		1	0.6				10.7	9	TRC Mariah Associates 1996
	16-Nov-95	lower		1	0.8	1.1 [2]			8	12.6	TRC Mariah Associates 1996
	22-May-96	lower	24.6	1	1	3.4 [2]			10.3	10.7	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	lower	6.2	1	2	4.2 [2]			19	7	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	lower		1	1	3.6 [2]			21.7	7.8	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	lower		1	0	15 [2]			20.4	8.5	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	lower		1	1	9 [2]			13.2	9.8	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	lower	1.5	1	3.9	12.4 [2]			7	8.3	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	lower	2.4	1	1	0.7 [2]			5.2	9.1	Mariah Associates 1997 (cited in Rich 1999)
	26-Nov-96	lower		1		4 [2]					Rich 1999
	29-May-97	lower		1		4 [2]					Rich 1999
	4-Jun-90	lower BLM land	0.15	1		5					BLM, unpublished data

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)		Source
Dry Valley Creek	26-Nov-96	bel Maybe Canyon Creek		1		4 [2]						Rich 1999
	23-May-97	bel Maybe Canyon Creek	15.7	1	0	11.3 [2]			11.9	13.8		Rich 1999
	29-May-97	bel Maybe Canyon Creek		1		13 [2]						Rich 1999
	25-Jun-97	bel Maybe Canyon Creek	8.5	1	1	0.7 [2]			18	11.4		Rich 1999
	23-Jul-97	bel Maybe Canyon Creek	3.6	1	1	20.7 [2]			12.1	9		Rich 1999
	25-Aug-97	bel Maybe Canyon Creek	3	1	1	0.7 [2]			20	10.9		Rich 1999
	24-Sep-97	bel Maybe Canyon Creek	0.7	1	2	8.2 [2]			15.8	14.5		Rich 1999
	21-Oct-97	bel Maybe Canyon Creek	0.7	1	1	6 [2]			9.8	15	>	Rich 1999
	18-Nov-97	bel Maybe Canyon Creek	0.4	1	1	30 [2]			4.3	15	>	Rich 1999
	27-May-98	bel Maybe Canyon Creek	4.7	1	0.5	4 [2]			15.8	8.21		Rich 1999
	28-May-98	bel Maybe Canyon Creek		1		4 [2]						Rich 1999
	22-Jun-98	bel Maybe Canyon Creek	3.85	1	0.7	10 [2]			16.4	8.9		Rich 1999
	21-Jul-98	bel Maybe Canyon Creek	1.9	1	5	5 [2]			17.4	9.3		Rich 1999
	17-Aug-98	bel Maybe Canyon Creek	0.3	1	1.8	1 [2]			16.5	9.4		Rich 1999
	29-Sep-98	bel Maybe Canyon Creek	0.67	1	2.5	8 [2]			8.3	13		Rich 1999
	30-Sep-98	bel Maybe Canyon Creek		1	6.6	4 [2]						Rich 1999
	19-Oct-98	bel Maybe Canyon Creek	0.35	1	2.4	6 [2]			10.5	15		Rich 1999
	27-May-98	confluence with Maybe Canyon Creek	3.9	1	0.5	6 [2]			15	7.18		Rich 1999
	28-May-98	confluence with Maybe Canyon Creek		1		4 [2]						Rich 1999
	22-Jun-98	confluence with Maybe Canyon Creek	3.2	1	0.6	7.8 [2]			15.4	9.05		Rich 1999
	21-Jul-98	confluence with Maybe Canyon Creek	1.2	1	6	3 [2]			18.5	10.6		Rich 1999
	17-Aug-98	confluence with Maybe Canyon Creek	1.02	1	1.2	1 [2]			17.7	13.1		Rich 1999
	29-Sep-98	confluence with Maybe Canyon Creek	0.4	1	2.7	8 [2]			8.6	15		Rich 1999
	19-Oct-98	confluence with Maybe Canyon Creek	0.43	1	2	2 [2]			5.5	12.4		Rich 1999
	26-Nov-96	ab Maybe Canyon Creek		1		4 [2]						Rich 1999
	27-May-98	ab Maybe Canyon Creek	3	1	0.6	4 [2]			26	8.2		Rich 1999
	28-May-98	ab Maybe Canyon Creek		1		4 [2]						Rich 1999
	22-Jun-98	ab Maybe Canyon Creek	2	1	0.4	0 [2]			15.3	8.95		Rich 1999
	21-Jul-98	ab Maybe Canyon Creek	0.6	1	5	2 [2]			19.7	10.9		Rich 1999
	17-Aug-98	ab Maybe Canyon Creek	0.332	1	1	0 [2]			19.5	14.1		Rich 1999
	29-Sep-98	ab Maybe Canyon Creek	0.08	1	2.4	7 [2]			10.5	15		Rich 1999
	30-Sep-98	ab Maybe Canyon Creek		1	6.5							Rich 1999
	19-Oct-98	ab Maybe Canyon Creek	0.84	1	2.7	11 [2]			6.1	16		Rich 1999
	Nov-96-Sep-98	ab Maybe Canyon Creek		3	1-6	1-11 [2]				8-15		BLM et al. 1999
	8-May-89	middle	3.9	1	0.1	< 0.4 [2]			14			Mariah Associates 1990
	13-Jun-89	middle		1	2.3	0 [2]			14.4			Mariah Associates 1990
	12-Jul-89	middle		1	9.2	57.1 [2]			14.3	6.8		Mariah Associates 1990
	15-Aug-89	middle	0	1	12.5	31.7 [2]			11.5			Mariah Associates 1990
	20-Sep-89	middle	dry	1								Mariah Associates 1990
	25-Oct-89	middle	dry	1								Mariah Associates 1990
	16-Nov-89	middle	dry	1								Mariah Associates 1990
	4-May-90	middle	1.3	1	2	0 [2]			10.5	10.4		Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	middle		1	1	0 [2]			11	11.4		Mariah Associates 1991b (cited in Rich 1999)
	10-Jun-91	middle	0.64	1	2.5	1 [2]			23.6	8		Mariah Associates 1992b (cited in Rich 1999)
	8-Jun-92	middle	0.48	1	2.6	1 [2]			24	8		Mariah Associates 1993b (cited in Rich 1999)
	30-Jun-93	middle	1.3	1	0.45	1.43 [2]			11.4	12.4		Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	middle	0.6	1	0.58	14.47 [2]			16.1	8.8		Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	middle		1	0.3	14 [2]			19.3	8.6		Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	middle		1	6.6	22.37 [2]			15.6	11.2		Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	middle		1	1	4.45 [2]			14.9	15		Mariah Associates 1994 (cited in Rich 1999)

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Dry Valley Creek	23-May-94	middle		1	1	< 16.73 [2]			27.6	10.2	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	middle		1	1.8	10.63 [2]			16.2	9.8	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	middle		1	9	72.49 [2]			25	7.8	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	middle	7.5	1	5	< 4 [2]			11.3	10.5	TRC Mariah Associates 1996
	14-Jun-95	middle	7.6	1	5	< 9 [2]			16.8	12.6	TRC Mariah Associates 1996
	11-Jul-95	middle		1	5	< 7 [2]			18.3	8.9	TRC Mariah Associates 1996
	29-Aug-95	middle		1	3.4	25 [2]			25.2	9.6	TRC Mariah Associates 1996
	26-Sep-95	middle		1	0.8	11.3 [2]			14.4	12.4	TRC Mariah Associates 1996
	16-Oct-95	middle		1	0.05	< 5 [2]			14.7	14.5	TRC Mariah Associates 1996
	16-Nov-95	middle		1	1.2	7.3 [2]			3.1	15 >	TRC Mariah Associates 1996
	22-May-96	middle	12.1	1	1				10.1	11.1	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	middle	3.1	1	1	1.4 [2]			20.4	9.4	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	middle		1	1				22.2	9.2	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	middle		1	0	13 [2]			23.5	8.4	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	middle		1	2	4 [2]			15.1	12.7	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	middle		1	1.4	3.1 [2]			3	9.4	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	middle		1	1.5	0.7 [2]			4.6	9.8	Mariah Associates 1997 (cited in Rich 1999)
	26-Nov-96	middle		1		160 [2]					Rich 1999
	23-May-97	middle	8.7	1	0	1.1 [2]			14.4	11.4	Rich 1999
	29-May-97	middle		1		11 [2]					Rich 1999
	25-Jun-97	middle	4.8	1	1	0.7 [2]			10.3	12.6	Rich 1999
	23-Jul-97	middle	4.8	1	2	11.8 [2]			15.7	9.5	Rich 1999
	25-Aug-97	middle	0.9	1	2	8.5 [2]			14.9	8.5	Rich 1999
	24-Sep-97	middle	1.7	1	2	0.7 [2]			7.5	10.8	Rich 1999
	21-Oct-97	middle	0.7	1	2	5.1 [2]			3	13.7	Rich 1999
	18-Nov-97	middle	2	1	1	2 [2]			1.9	13.9	Rich 1999
	27-May-98	middle	3.7	1	0.9	11 [2]			12.1	8.75	Rich 1999
	28-May-98	middle		1		9 [2]					Rich 1999
	22-Jun-98	middle	1.6	1	0.9	14.2 [2]			12.1		Rich 1999
	21-Jul-98	middle	0.73	1	2	8 [2]			26.8	8.9	Rich 1999
	17-Aug-98	middle	0.724	1	3.5	4 [2]			19.2	8.7	Rich 1999
	29-Sep-98	middle	0.34	1	20	55 [2]			15.5	9	Rich 1999
	19-Oct-98	middle	0.3	1	0.95	0 [2]			1.5		Rich 1999
	Nov-96-Sep-98	middle		4	1-20	1-55 [2]				8-14	BLM et al. 1999
	May-77	upper	0.4	1	12.42	43 [2]			9	6.3	Aware 1979 (cited in Rich 1999)
	Sep-77	upper	0.4	1	2.7	114 [2]			16	14	Aware 1979 (cited in Rich 1999)
	May-78	upper	1.5	1	6.7	26 [2]			6	7	Aware 1979 (cited in Rich 1999)
	Oct-78	upper	0.2	1	12.65	16 [2]			6	5	Aware 1979 (cited in Rich 1999)
	May-79	upper	0.8	1	5.25	31 [2]			6	14.7	Aware 1979 (cited in Rich 1999)
	Aug-79	upper	0.2	1	10	11 [2]			17	6.3	Aware 1979 (cited in Rich 1999)
	8-May-89	upper	0.2	1	4.3	3.3 [2]			16.5	9	Mariah Associates 1990
	13-Jun-89	upper	0.1	1	2.2	2.8 [2]			15		Mariah Associates 1990
	12-Jul-89	upper	0.1 <	1	5.8	43.9 [2]			16.8	8.3	Mariah Associates 1990
	15-Aug-89	upper	0.1 <	1	8.6	2.8 [2]			12.6		Mariah Associates 1990
	20-Sep-89	upper	0.1 <	1	1.8	0 [2]			9.2	1.4	Mariah Associates 1990
	25-Oct-89	upper	0.1 <	1	3.6	1.9 [2]			7.8		Mariah Associates 1990
	16-Nov-89	upper	0.1 <	1	2.8	9.7 [2]			2	10.5	Mariah Associates 1990
	4-May-90	upper	0.3	1	2	3.1 [2]			13.2	9	Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	upper	0.1	1	1.9	3.4 [2]			12	8.2	Mariah Associates 1991b (cited in Rich 1999)
	19-Jul-90	upper		1	1.5	6 [2]			19	8.7	Mariah Associates 1991b (cited in Rich 1999)

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Dry Valley Creek	10-Jun-91	upper	0.25	1	2.6	2 [2]			25.7	9.4	Mariah Associates 1992b (cited in Rich 1999)
	30-Aug-91	upper	dry	1	3.2	0.4 [2]					Mariah Associates 1992b (cited in Rich 1999)
	8-Jun-92	upper	0.37	1	2.7	1 [2]			24.9	9.2	Mariah Associates 1993b (cited in Rich 1999)
	14-Aug-92	upper	dry	1	3.2	0.39 [2]					Mariah Associates 1993b (cited in Rich 1999)
	30-Jun-93	upper	0.61	1	0.55	0.71 [2]			9.5	8.5	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	upper	1.65	1	0.48	38.15 [2]			20.4	9.6	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	upper	0.88	1	0.75	7 [2]			19.8	11.1	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	upper	0.62	1	0.65	7.35 [2]			16.9	10	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	upper	0.83	1	1.4	9.57 [2]			10.8	11.6	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	upper	0.74	1	1	7.23 [2]				7.2	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	upper	0.53	1	1.9	8.21 [2]				10.4	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	upper	1.08	1	5	18.21 [2]				7.1	Mariah Associates 1995 (cited in Rich 1999)
	23-Aug-94	upper	1.16	1	5	< 9.98 [2]				10.8	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	upper	2.4	1	5	< 4 [2]			10.1	13.2	TRC Mariah Associates 1996
	14-Jun-95	upper	2.3	1	5	< 10 [2]			17.6	12.2	TRC Mariah Associates 1996
	11-Jul-95	upper	2.1	1	4	32 [2]			18.9	8.2	TRC Mariah Associates 1996
	29-Aug-95	upper	1.7	1	7.8	69 [2]			21.9	7	TRC Mariah Associates 1996
	26-Sep-95	upper	1.2	1	5.5	36.1 [2]			15.9	11.8	TRC Mariah Associates 1996
	16-Oct-95	upper	1.2	1	3.2	14.4 [2]			12.2	12	TRC Mariah Associates 1996
	16-Nov-95	upper	1.2	1	4.2	26.3 [2]			2.3	15	> TRC Mariah Associates 1996
	22-May-96	upper	2.7	1	23	48.4 [2]				11.7	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	upper	1.6	1	1	37.7 [2]				12.1	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	upper	1.4	1	23	83.5 [2]				6.8	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	upper	1	1	39	186 [2]				7.3	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	upper	0.8	1	41	168 [2]				9.8	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	upper	0.6	1	5.5	28.9 [2]				10.5	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	upper	0.8	1	6.8	32.2 [2]				11.6	Mariah Associates 1997 (cited in Rich 1999)
	23-May-97	upper	8.1	1	1	30.4 [2]			13.5	11.2	Rich 1999
	29-May-97	upper		1		29 [2]					Rich 1999
	25-Jun-97	upper	4.3	1	1	33.5 [2]			9.5	12.8	Rich 1999
	23-Jul-97	upper	1.6	1	3	88.4 [2]			13.3	9.8	Rich 1999
	25-Aug-97	upper	1	1	55	4.8 [2]			13.6	9.1	Rich 1999
	24-Sep-97	upper	0.7	1	23	57.6 [2]			6.3	12.4	Rich 1999
	21-Oct-97	upper	0.3	1	9	34.3 [2]			2.1	14.5	Rich 1999
	18-Nov-97	upper		1	6	29 [2]			1.4	14.2	Rich 1999
	27-May-98	upper	2.1	1	7.4	56 [2]			9.4	9.95	Rich 1999
	28-May-98	upper		1		45 [2]					Rich 1999
	22-Jun-98	upper	1.89	1	8.8	69.7 [2]			18.7	7.5	Rich 1999
	21-Jul-98	upper	3.25	1	57	199 [2]			23.6	6.3	Rich 1999
	17-Aug-98	upper	2.34	1	24	110 [2]			17.3	7	Rich 1999
	29-Sep-98	upper	0.62	1	15	52 [2]			7.22	10.2	Rich 1999
	19-Oct-98	upper	1.71	1	7	23 [2]			25	12	Rich 1999
	May-97-Sep-98	upper		3	1-57	5-199 [2]				6-15	BLM et al. 1999
Chicken Creek	4-Jun-90	ab Dry Valley Road	0.06	1					13.5		BLM, unpublished data
	30-Jun-93	lower	1.53	1	0.35	0.71 [2]			19.2	15	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	lower	0.84	1	0.4	0 [2]			13.8	10.3	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	lower		1	0.6	9 [2]			10	11.6	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	lower		1	0.37	0 [2]			18	15	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	lower		1	4.1	2.26 [2]			12.6	15	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	lower	1.17	1	1	< 4.38 [2]			17.8	8.2	Mariah Associates 1995 (cited in Rich 1999)

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Chicken Creek	21-Jun-94	lower		1	1.5	8.95 [2]			14.9	12.1	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	lower		1	5	< 6.63 [2]			23.8	5.4	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	lower	7.3	1	5	< 7 [2]			9.4	13	TRC Mariah Associates 1996
	14-Jun-95	lower	17	1	5	< 11 [2]			17.3	14.1	TRC Mariah Associates 1996
	11-Jul-95	lower		1	0.7	8 [2]			16.3	12.8	TRC Mariah Associates 1996
	29-Aug-95	lower	1.4	1	0.5	< 19 [2]			10.2	14.2	TRC Mariah Associates 1996
	26-Sep-95	lower	0.8	1	1.9	11.13 [2]			11.8	8.6	TRC Mariah Associates 1996
	16-Oct-95	lower	0.9	1	1	1 [2]			10.7	14.6	TRC Mariah Associates 1996
	16-Nov-95	lower	1.6	1	4.6	11.1 [2]			4.3	15	TRC Mariah Associates 1996
	22-May-96	lower	16.8	1	1	11.7 [2]			12.7	11.7	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	lower	2.8	1	1	10.1 [2]			19.6	10.1	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	lower	1.75	1	1	9.6 [2]			16.5	9.6	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	lower	3.3	1	0	9.9 [2]			20.7	9.9	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	lower	0.9	1	2	13.5 [2]			11	13.5	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	lower	0.9	1	1.5	10.9 [2]			4	10.9	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	lower		1	1.2	13.4 [2]			4.2	13.4	Mariah Associates 1997 (cited in Rich 1999)
	May-97-Nov-98	ab mouth		3	1-7	3-28 [2]				7-15	BLM et al. 1999
	30-Jun-93	upper		1	0.55	4.94 [2]			17.2	9.4	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	upper		1	1.4	8.14 [2]			16	9.2	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	upper		1	0.9	13 [2]			11.7	5.5	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	upper		1	1.5	2.22 [2]			16.6	7.6	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	upper		1	1.5	9.39 [2]			10.8	7.2	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	upper		1	1.5	7.92 [2]			23.3	3.4	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	upper		1	2.6	9.43 [2]			19.8	6.4	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	upper		1	5	< 13.47 [2]			24.1	13.9	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	upper		1	5	7 [2]			9.5	13.9	TRC Mariah Associates 1996
	14-Jun-95	upper		1	5	< 11 [2]			19.4	10.8	TRC Mariah Associates 1996
	11-Jul-95	upper		1	1.3	16 [2]			22.9	8	TRC Mariah Associates 1996
	29-Aug-95	upper		1	2.1	24 [2]			14.1	4.2	TRC Mariah Associates 1996
	26-Sep-95	upper		1	1.5	12.1 [2]			11.8	10.4	TRC Mariah Associates 1996
	16-Oct-95	upper		1	1.5	1.1 [2]			10.4	4.7	TRC Mariah Associates 1996
	16-Nov-95	upper		1	0.6	9.7 [2]			2.5	15	TRC Mariah Associates 1996
	22-May-96	upper	17.9	1	2	1 <[2]			10.5	10.4	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	upper		1	1	1 <[2]			17	8.4	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	upper		1	2	1 <[2]			18.4	5.8	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	upper		1	1	14 [2]			23.9	4.7	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	upper		1	2	5 [2]			11.1	7.1	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	upper		1	1.3	6.1 [2]			4	6.8	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	upper	1.7	1	1.4	0.7 [2]			3.8	8.8	Mariah Associates 1997 (cited in Rich 1999)
	23-May-97	upper	2.8	1	1	22.5 [2]			14.6	8.3	Rich 1999
	29-May-97	upper		1		4 [2]					Rich 1999
	25-Jun-97	upper	1.5	1	1	4.2 [2]			16.3	10.1	Rich 1999
	23-Jul-97	upper	0.8	1	2	23.6 [2]			11.3	9.7	Rich 1999
	25-Aug-97	upper	0.9	1	4	11.9 [2]			17.5	8.8	Rich 1999
	24-Sep-97	upper	0.9	1	3	2.7 [2]			12.3	11.1	Rich 1999
	18-Nov-97	upper	0.3	1	3	20 [2]			0.7	15 >	Rich 1999
	27-May-98	upper	1.06	1	0.1	10 [2]			10.4	6.9	Rich 1999
	22-Jun-98	upper	0.65	1	0.3	13.5 [2]			11.9	9.6	Rich 1999
	21-Jul-98	upper	0.23	1	0.3	8 [2]			12.9	8.05	Rich 1999
	17-Aug-98	upper	0.41	1	7	9 [2]			13.4	9.1	Rich 1999

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Chicken Creek	29-Sep-98	upper	0.3	1	1.5	21 [2]			11.5	9.02	Rich 1999
	19-Oct-98	upper	0.3	1	4.7	3 [2]			3.3	14.4	Rich 1999
	17-Nov-98	upper		1	0.93	28 [2]					Rich 1999
Maybe Canyon Creek	13-Jun-89		0.4	1	0.2	0 [2]			18.3		Mariah Associates 1990
	12-Jul-89		0.1 <	1	1.5	0 [2]			14.6	10.9	Mariah Associates 1990
	15-Aug-89		dry	1							Mariah Associates 1990
	20-Sep-89		dry	1							Mariah Associates 1990
	25-Oct-89		dry	1							Mariah Associates 1990
	16-Nov-89		dry	1							Mariah Associates 1990
	4-May-90	ab mouth	2.2	1	1.5	0 [2]			14	10.1	Mariah Associates 1991b (cited in Rich 1999)
	6-Jun-90	ab mouth		1	0.5	0 [2]			13	12.3	Mariah Associates 1991b (cited in Rich 1999)
	May-91	ab mouth		1					24.7		Mariah Associates 1992b (cited in Rich 1999)
	10-Jun-91	ab mouth	0.9	1	2.4	2 [2]			25.7	7.4	Mariah Associates 1992b (cited in Rich 1999)
	30-Jul-91	ab mouth		1	16	22.7 [2]					Mariah Associates 1992b (cited in Rich 1999)
	30-Jun-93	ab mouth	2.02	1	0.45	11.98 [2]			23.7	10.8	Mariah Associates 1994 (cited in Rich 1999)
	29-Jul-93	ab mouth	0.96	1	0.35	0 [2]			18.2	9.8	Mariah Associates 1994 (cited in Rich 1999)
	31-Aug-93	ab mouth	0.88	1	0.25	6 [2]			27.8	11.7	Mariah Associates 1994 (cited in Rich 1999)
	27-Sep-93	ab mouth	0.71	1	0.42	1.46 [2]			18.3	15	Mariah Associates 1994 (cited in Rich 1999)
	30-Oct-93	ab mouth	0.51	1	4.6	10.86 [2]			16.9	14.1	Mariah Associates 1994 (cited in Rich 1999)
	23-May-94	ab mouth	1.92	1	1 <	6.41 [2]			26.6	10.3	Mariah Associates 1995 (cited in Rich 1999)
	21-Jun-94	ab mouth	0.68	1	1.6	7.54 [2]			19.2	13.8	Mariah Associates 1995 (cited in Rich 1999)
	13-Jul-94	ab mouth		1	5 <	14.57 [2]			25.6	15	Mariah Associates 1995 (cited in Rich 1999)
	23-May-95	ab mouth	8.4	1	5 <	5 [2]			10.7	12.2	TRC Mariah Associates 1996
	14-Jun-95	ab mouth	8.7	1	5 <	12 [2]			19.3	12.8	TRC Mariah Associates 1996
	11-Jul-95	ab mouth		1	5 <	7 [2]			19.5	14	TRC Mariah Associates 1996
	29-Aug-95	ab mouth		1	0.5 <	22 [2]			21.3	13.6	TRC Mariah Associates 1996
	26-Sep-95	ab mouth		1	0.6	19 [2]			13.5	12.2	TRC Mariah Associates 1996
	16-Oct-95	ab mouth		1	2.1	8.1 [2]			12.5	12	TRC Mariah Associates 1996
	16-Nov-95	ab mouth	2.7	1	0.5 <	5 [2]			3.2	15	TRC Mariah Associates 1996
	22-May-96	ab mouth	12.1	1	1	1 <[2]			14.3	10.6	Mariah Associates 1997 (cited in Rich 1999)
	24-Jun-96	ab mouth	3.2	1	1	3.6 [2]			21.9	11.3	Mariah Associates 1997 (cited in Rich 1999)
	16-Jul-96	ab mouth	2.6	1	1				18.6	9.8	Mariah Associates 1997 (cited in Rich 1999)
	15-Aug-96	ab mouth		1	0	13 [2]			24	9.4	Mariah Associates 1997 (cited in Rich 1999)
	24-Sep-96	ab mouth		1	1	13 [2]			20.6	13	Mariah Associates 1997 (cited in Rich 1999)
	22-Oct-96	ab mouth		1	1	4.6 [2]			4	12.1	Mariah Associates 1997 (cited in Rich 1999)
	20-Nov-96	ab mouth		1	1.2	0.7 [2]			3.5	12.8	Mariah Associates 1997 (cited in Rich 1999)
	26-Nov-96	ab mouth		1		7 [2]					Mariah Associates 1997 (cited in Rich 1999)
	27-May-98	ab mouth	0.6	1	1.9	13 [2]			16.6	7.78	Rich 1999
	28-May-98	ab mouth		1		4 [2]					Rich 1999
	22-Jun-98	ab mouth	0.4	1	2	95.7 [2]			18.4	6.7	Rich 1999
	21-Jul-98	ab mouth	2.1	1	70	279 [2]			24.8	4.2	Rich 1999
	17-Aug-98	ab mouth	0.61	1	56	320 [2]			20.1	6.2	Rich 1999
	29-Sep-98	ab mouth	0.03	1	15	70 [2]			16.5	6.4	Rich 1999
	19-Oct-98	ab mouth	0.21	1	6.5	18 [2]			25	10.1	Rich 1999
	Nov-96-Nov-98	ab mouth		3	2-70	13-320 [2]				4-10	BLM et al. 1999
	8-May-79	nr South Maybe Canyon mine	0.69	1		17			3		Low 1981
	6-Jun-79	nr South Maybe Canyon mine	0.42	1		35			5.5		Low 1981
	7-Aug-79	nr South Maybe Canyon mine	0.12	1		22			8		Low 1981
	3-Oct-79	nr South Maybe Canyon mine	0.09	1		37			3		Low 1981
	26-Nov-96	ab mining activities		1		4 [2]					Rich 1999

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Maybe Canyon Creek	27-May-98	ab mining activities	1.8	1	2	12 [2]			11.2	8.1	Rich 1999
	22-Jun-98	ab mining activities	1	1	0.7	4.4 [2]			13.8	8.3	Rich 1999
	21-Jul-98	ab mining activities	0.4	1	4	8 [2]			18.5	8.85	Rich 1999
	17-Aug-98	ab mining activities		1	2	7 [2]			15	8	Rich 1999
	29-Sep-98	ab mining activities	0.51	1	4	9 [2]			12.4	9.4	Rich 1999
	19-Oct-98	ab mining activities	0.89	1	5.8	1 [2]			25	12.2	Rich 1999
Caldwell Creek	May-98			2	1-12	2-72 [2]				1-15	BLM et al. 1999
Stewart creeks	May-98	north and south creeks		2	1-10	2-82 [2]				7-12	BLM et al. 1999
NDR Creek	May-92		0.037	1		2 <[2]			9	10	Mariah Associates 1993a
	Jun-92		0.023	1	1.38	12 [2]			5	9.5	Mariah Associates 1993a
	Jul-92		trace	1	0.2	2 [2]			7	8	Mariah Associates 1993a
Mill Canyon Creek	1970-1974			4-8	39 [3]					12	Platts and Primbs 1976
Angus Creek	4-Jun-98	nr mouth	16.5	1		12 [2]					DEQ, unpublished data
	6-Jul-98	nr mouth	4.3	1		9 [2]					DEQ, unpublished data
	16-Jul-98	nr mouth		1		2 [2]					DEQ, unpublished data
	22-Jul-98	nr mouth		1		12 [2]					DEQ, unpublished data
	14-Aug-98	nr mouth		1		3 [2]					DEQ, unpublished data
	1970-1972	Blackfoot R Rd to upper Little Long Valley		72	22 [3]						Platts and Rountree 1973
	1970-1974	Blackfoot R Rd to upper Little Long Valley		9-73	24 [3]				4.4	12	Platts and Primbs 1976
	Spring, 1970-1976	Blackfoot River Rd to upper Narrows		unk	11.0	28			4.0		Platts and Martin 1978
	Summer, 1970-1976	Blackfoot River Rd to upper Narrows		unk	2.6	13			12.0		Platts and Martin 1978
	Fall, 1970-1976	Blackfoot River Rd to upper Narrows		unk	3.1	7			8.0		Platts and Martin 1978
	Winter, 1970-1976	Blackfoot River Rd to upper Narrows		unk	3.0	13			0.5		Platts and Martin 1978
	Aug-Oct-74	lower		11		0-11					BLM and USFS 1976 (cited in Mariah Associates 1992a)
	Aug-74-Jul-75	0.5 mile ab Forest Service boundary		35		12.3			13.9		Platts and Primbs 1976
	May-91	lower		1	1.54						Mariah Associates 1992a
	Oct-91	lower		1	6.3						Mariah Associates 1992a
	May-92	lower		1	2.8						Mariah Associates 1992a
	May-91	middle		1	2.5						Mariah Associates 1992a
	Oct-91	middle		1	4.3						Mariah Associates 1992a
	9-May-79	nr Wooley Valley unit 3 mine	8.5	1		125			8		Low 1981
	7-Jun-79	nr Wooley Valley unit 3 mine	2.2	1		47			6.5		Low 1981
	8-Aug-79	nr Wooley Valley unit 3 mine	0.39	1		19			20		Low 1981
	3-Oct-79	nr Wooley Valley unit 3 mine	0.38	1		40			8		Low 1981
	Aug-Oct-74	upper		8		0-25					BLM and USFS 1976 (cited in Mariah Associates 1992a)
	May-91	upper		1	0.47						Mariah Associates 1992a
	Oct-91	upper		1	2.1						Mariah Associates 1992a
	May-92	upper		1	2.1						Mariah Associates 1992a
	Aug-74-Jul-75	nr headwaters		35-37		15.8			18.9		Platts and Primbs 1976
	21-Apr-95	1	3.961	1	2.3	7.7 [2]			7	6.3	Rhone-Poulenc 1996, unpublished data
	22-May-95	1	1.94	1	0.66	2.14 [2]			10	8.9	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	1	2.381	1	1.6	1.34 [2]			17	7.8	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	1	0.27	1	1.7	1.1 [2]			11	6.9	Rhone-Poulenc 1996, unpublished data
	21-Apr-95	2	6.143	1	3.5	3.5 [2]			7	9	Rhone-Poulenc 1996, unpublished data
	22-May-95	2	6.143	1	3.5	3.5 [2]			7	9	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	2	4.134	1	2.7	0.96 [2]			15	8	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	2	0.95	1	2.1	1 [2]			12.4	6.5	Rhone-Poulenc 1996, unpublished data
	3-Oct-79	nr South Maybe Canyon mine	0.09	1		37			3		Low 1981
	26-Nov-96	ab mining activities		1		4 [2]					Rich 1999

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Rasmussen Creek	May-91	middle		1	1.02						Mariah Associates 1992a
	Oct-91	middle		1	24						Mariah Associates 1992a
	May-92	middle		1	1.7						Mariah Associates 1992a
	May-91	upper		1	0.95						Mariah Associates 1992a
	Oct-91	upper		1	4.2						Mariah Associates 1992a
	May-92	upper		1	1.5						Mariah Associates 1992a
	21-Apr-95	1	8.727	1	5.4	0.4 [2]			13	7.9	Rhone-Poulenc 1996, unpublished data
	22-May-95	1	10.79	1	1.53	2.53 [2]			12	8.2	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	1	0.5	1	1	1.31 [2]			18	7.8	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	1	0.19	1	2	2.1 [2]			19	6.6	Rhone-Poulenc 1996, unpublished data
	21-Apr-95	2	5.411	1	17.2	20.3 [2]			13	7	Rhone-Poulenc 1996, unpublished data
	22-May-95	2	4.636	1	1.6	2.29 [2]			12	9.1	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	2	1.495	1	1.74	1.39 [2]			15	8.2	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	2	0.48	1	2.2	2.1 [2]			19.2	6.6	Rhone-Poulenc 1996, unpublished data
No Name Creek	Oct-90	lowest	dry	1							Mariah Associates 1992a
	May-91	lowest		1	15.3						Mariah Associates 1992a
	Oct-91	lowest	dry	1							Mariah Associates 1992a
	May-92	lowest	dry	1							Mariah Associates 1992a
	Oct-90	lower	dry	1							Mariah Associates 1992a
	May-91	lower		1	18.3						Mariah Associates 1992a
	Oct-91	lower		1	2.5						Mariah Associates 1992a
	May-92	lower		1	2.9						Mariah Associates 1992a
	May-91	middle		1	13						Mariah Associates 1992a
	Oct-91	middle		1	2.9						Mariah Associates 1992a
	May-92	middle		1	2.8						Mariah Associates 1992a
	May-91	upper		1	3.9						Mariah Associates 1992a
	Oct-91	upper		1	2.5						Mariah Associates 1992a
	May-92	upper		1	4.2						Mariah Associates 1992a
	21-Apr-95	1	4.72	1	6.6	3 [2]			2	10.1	Rhone-Poulenc 1996, unpublished data
	22-May-95	1	4.56	1	7.7	1.86 [2]			7	9.1	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	1	3.61	1	3.5	15.57 [2]			11	8.3	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	1	1.06	1	3.1	9.1 [2]			12.4	7.2	Rhone-Poulenc 1996, unpublished data
	21-Apr-95	2	0.407	1	9.8	3 [2]			2.5	10.6	Rhone-Poulenc 1996, unpublished data
	22-May-95	2	5.493	1	5.3	2.57 [2]			7	10.6	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	2	3.299	1	4.5	17.29 [2]			12	8.3	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	2	0.8	1	3.2	9 [2]			12.4	7.2	Rhone-Poulenc 1996, unpublished data
	21-Apr-95	3	10.92	1	8.8	2.9 [2]			2	10.8	Rhone-Poulenc 1996, unpublished data
	22-May-95	3	7.774	1	5.9	2.86 [2]			8	9.8	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	3	1	1	4.8	16.43 [2]			12	8.4	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	3	0.24	1	4	8.8 [2]			12.8	7.1	Rhone-Poulenc 1996, unpublished data
Spring Creek	6-Jul-98	nr mouth	54	1		19 [2]					DEQ, unpublished data
	16-Jul-98	nr mouth	49.3 [7]	1		6 [2]					DEQ, unpublished data
	22-Jul-98	nr mouth	36.8 [7]	1		7 [2]					DEQ, unpublished data
	14-Aug-98	nr mouth	29 [7]	1		6 [2]					DEQ, unpublished data
	27-Sep-98	nr mouth	25.9	1		11 [2]					DEQ, unpublished data
	Oct-90	bel confluence of Mill Creek		1	0.4	2 <[2]					Mariah Associates 1991a
	May-91	bel confluence of Mill Creek		1		4 [2]			7	10	Mariah Associates 1993a
	Oct-91	bel confluence of Mill Creek		1		2 <[2]			9	10	Mariah Associates 1993a
	May-92	bel confluence of Mill Creek		1		2 <[2]			15	10.5	Mariah Associates 1993a
	Oct-90	ab confluence of Mill Creek		1	0.3	2 [2]					Mariah Associates 1991a

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Spring Creek	May-91	ab confluence of Mill Creek		1		8 [2]			7	9	Mariah Associates 1993a
	Oct-91	ab confluence of Mill Creek		1		2 <[2]			9	10.5	Mariah Associates 1993a
	May-92	ab confluence of Mill Creek		1		8 [2]			14	10	Mariah Associates 1993a
Mill Creek	Aug-74-Jul-75	nr Forest Service boundary		38		8.7			12.2 [5]		Platts and Primbs 1976
	Aug-Dec-74	nr Forest Service boundary		12	0.4-1.4	0-7					BLM and USFS 1976 (cited in Mariah Associates 1991a)
	Apr-Jul-75	nr Forest Service boundary	1.4-4.2	14	0.3-2.7	0-35					BLM and USFS 1976 (cited in Mariah Associates 1991a)
	31-May-90	nr Forest Service boundary	2.4	1	5.8	8 [2]			8.3		Mariah Associates 1991a
	24-Jul-90	nr Forest Service boundary	2.2	1	2.2	2 <[2]			10		Mariah Associates 1991a
	28-Aug-90	nr Forest Service boundary	2.2	1	1.2	10 [2]			11.5		Mariah Associates 1991a
	1-Oct-90	nr Forest Service boundary	2.6	1	3.5	18 [2]			10		Mariah Associates 1991a
	23-Oct-90	nr Forest Service boundary	2.9	1	1.1	4 [2]			7.2		Mariah Associates 1991a
	15-Nov-90	nr Forest Service boundary	2.6	1	5.4	4 [2]			5		Mariah Associates 1991a
	May-91	nr Forest Service boundary	2.6	1	1.5	38 [2]			10	10	Mariah Associates 1993a
	19-Jun-91	nr Forest Service boundary	2.4	1	5.7	4 [2]			11.5	9	Mariah Associates 1993a
	3-Jul-91	nr Forest Service boundary	2.4	1	6.2	18 [2]			8	11	Mariah Associates 1993a
	8-Aug-91	nr Forest Service boundary	2.3	1	1.3	26 [2]			12	10	Mariah Associates 1993a
	18-Sep-91	nr Forest Service boundary	2.3	1	1.6	12 [2]			5	10.5	Mariah Associates 1993a
	Oct-91	nr Forest Service boundary	2.1	1		2 [2]			8	9.5	Mariah Associates 1993a
	18-May-92	nr Forest Service boundary	1.6	1	5.3	38 [2]			14	10.5	Mariah Associates 1993a
	10-Jun-92	nr Forest Service boundary	1.6	1	1.3	4 [2]			9	9.5	Mariah Associates 1993a
	13-Jul-92	nr Forest Service boundary	1.3	1	2.7	18 [2]			7	10	Mariah Associates 1993a
	11-Aug-92	nr Forest Service boundary	1.5	1	3.2	14 [2]			9	10.2	Mariah Associates 1993a
	17-Sep-92	nr Forest Service boundary	1.4	1	3.9	2 <[2]			9	10.2	Mariah Associates 1993a
	13-Oct-92	nr Forest Service boundary	1.5	1	1.3	2 <[2]			8	9.8	Mariah Associates 1993a
Lanes Creek	summer 1977			5	1.2 [3]	8.2 [2]			17.9	9	Perry 1977
	16-May-79	at mouth		1			150	54	9	8.4	DEQ, unpublished data
	30-Jul-79	at mouth		1			86	100			DEQ, unpublished data
	9-Nov-79	at mouth	7.7	1					3.8	10.4	DEQ, unpublished data
	25-Jun-80	at mouth	11	1			52	4	16.5	8.2	DEQ, unpublished data
	20-Aug-80	at mouth	6.95	1			2	< 120	14	9.4	DEQ, unpublished data
	13-Nov-80	at mouth	9	1			14	14	2	10.6	DEQ, unpublished data
	21-May-81	at mouth	65	1			70	41	5	9.2	DEQ, unpublished data
	25-Aug-81	at mouth	3.2	1			250	120	17	8.4	DEQ, unpublished data
	24-Nov-81	at mouth		1			7	34	1	11.8	DEQ, unpublished data
	25-May-82	at mouth		1	9.6	27 [2]	8	8	11.2	9.9	DEQ, unpublished data
	4-Aug-82	at mouth		1	1	2 [2]	78	9	16.1	9.2	DEQ, unpublished data
Sheep Creek	Aug-Oct-74			11		0-5					BLM and USFS 1976 (cited in Mariah Associates 1992a)
	May-91	lowest		1	3.7						Mariah Associates 1992a
	Oct-91	lowest		1	4.4						Mariah Associates 1992a
	May-92	lowest		1	4.1						Mariah Associates 1992a
	May-91	lower		1	2.2						Mariah Associates 1992a
	Oct-91	lower		1	1.5						Mariah Associates 1992a
	May-92	lower		1	4.1						Mariah Associates 1992a
	May-91	middle		1	1.73						Mariah Associates 1992a
	Oct-91	middle		1	5.3						Mariah Associates 1992a
	May-92	middle		1	7.1						Mariah Associates 1992a
	May-91	upper		1	1.58						Mariah Associates 1992a
	Oct-91	upper		1	2.7						Mariah Associates 1992a
	May-92	upper		1	6.8						Mariah Associates 1992a

Table D-1. Continued.

Waterbody	Date	Site	Discharge (cfs)	Number of samples	Turbidity (NTU)	Suspended sediment (mg/l)	Fecal coliform (colonies/100 ml)	Fecal streptococcus (colonies/100 ml)	Temperature (°C)	Dissolved oxygen (mg/l)	Source
Sheep Creek	21-Apr-95	1	10	1	6.5	9.7 [2]			2.5	7.2	Rhone-Poulenc 1996, unpublished data
	22-May-95	1	15.18	1	2.5	13.4 [2]			13.5	8.2	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	1	7.537	1	3.3	0.94 [2]			6.5	9.9	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	1	1.88	1	3.3	0.9 [2]			8.1	8.3	Rhone-Poulenc 1996, unpublished data
	21-Apr-95	2	15.87	1	7.4	8.5 [2]			2	10	Rhone-Poulenc 1996, unpublished data
	22-May-95	2	36.72	1	3.3	14.4 [2]			12	8.2	Rhone-Poulenc 1996, unpublished data
	30-Jun-95	2	14.85	1	3.9	1.13 [2]			7	9.9	Rhone-Poulenc 1996, unpublished data
	15-Sep-95	2	6.22	1	3.9	1.3 [2]			8.3	9	Rhone-Poulenc 1996, unpublished data
	May-91	tributary		1	13.4						Mariah Associates 1992a
	Oct-91	tributary		1	0.94						Mariah Associates 1992a
	May-92	tributary		1	2.2						Mariah Associates 1992a
Diamond Creek	May-Oct-79	nr mouth	11-28	4		1-88 [8]			3-15		USDA and USDI 1981
	16-Jul-98	nr mouth	25.2	1		8 [2]	7				DEQ, unpublished data
	22-Jul-98	nr mouth	21.4	1		3 [2]					DEQ, unpublished data
	14-Aug-98	nr mouth	17.2	1		30 [2]					DEQ, unpublished data
	27-Sep-98	nr mouth	11.4	1		3 [2]					DEQ, unpublished data
	10-May-79	ab Timothy Creek	28	1		88			9.5		Low 1981
	6-Jun-79	ab Timothy Creek	40	1		78			15		Low 1981
	9-Aug-79	ab Timothy Creek	15	1		29			11		Low 1981
	3-Oct-79	ab Timothy Creek	11	1		1 <			3		Low 1981
	Spring, 1970-1976	Forest boundary to about 1 mi bel hdwtrs		unk	11.0	95			3.0		Platts and Martin 1978
	Summer, 1970-1976	Forest boundary to about 1 mi bel hdwtrs		unk	4.0	36			9.0		Platts and Martin 1978
	Fall, 1970-1976	Forest boundary to about 1 mi bel hdwtrs		unk	0.6	7			5.0		Platts and Martin 1978
	Oct-75-Sep-76	ab Kendall Creek		7-8	3.2 [3]	41 [2]				8.5 [4]	McSorley 1977
	summer 1977			5-6	1.1 [3]	5.9 [2]			13.6	9.6	Perry 1977
	Oct-80	bel Timber Creek	4.34	1	0.5	30			10	11	USDA and USDI 1981
	1974-1976	ab Stewart Canyon		unk	0.6-11	7-95			3-9		USDA and USDI 1981
	Oct-80	nr South Stewart Canyon	6.34	1	0.5	20			5	10	USDA and USDI 1981
	9-May-79	ab Alumet operation		1			6	4	7	9.2	DEQ, unpublished data
	30-Jul-79	ab Alumet operation		1			42	310			DEQ, unpublished data
	5-Nov-79	ab Alumet operation	10.9	1					7.4	10.6	DEQ, unpublished data
	25-Jun-80	ab Alumet operation	12.5	1			2	2 <	11	8.5	DEQ, unpublished data
	20-Aug-80	ab Alumet operation	20.4	1			2 <	10	15	9	DEQ, unpublished data
	13-Nov-80	ab Alumet operation	10.8	1			2 <	2 <	6	10.4	DEQ, unpublished data
	21-May-81	ab Alumet operation	21	1			13	9	5	9.3	DEQ, unpublished data
	25-Aug-81	ab Alumet operation	9.3	1			27	6	11	9	DEQ, unpublished data
	24-Nov-81	ab Alumet operation		1			11	14	6	10.4	DEQ, unpublished data
	25-May-82	ab Alumet operation		1	8.5	58 [2]	6	7	12.5	8.8	DEQ, unpublished data
	4-Aug-82	ab Alumet operation		1	3.4	10 [2]	19	13	15	9.1	DEQ, unpublished data
Kendall Creek	1970-1974			4-6	35 [3]					13	Platts and Primbs 1976
	Aug-74-Jul-75	nr Forest Service boundary		21-22		13.0			7.2 [5]		Platts and Primbs 1976
	Spring, 1970-1976			unk	1.0	12			2.0		Platts and Martin 1978
	Summer, 1970-1976			unk	0.8	23			6.0		Platts and Martin 1978
	Fall, 1970-1976			unk	11.0	11			5.0		Platts and Martin 1978
	Winter, 1970-1976			unk	0.5	7			4.0		Platts and Martin 1978
Stewart Creek	21-Oct-81	lower	0.8	1	1 <	8 [2]			3	10.6	Mariah Associates 1982
	21-Oct-81	upper	1.5	1	269	216 [2]			4	3	Mariah Associates 1982
Timber Creek	Oct-80	nr mouth	0.57	1	0.6	25			4	11.6	USDA and USDI 1981
	Oct-80	upper	3.6	1	0.3	20			4	0	USDA and USDI 1981

[1]FTU - formazin turbidity units
[2]Total Suspended Solids
[3]JTU - Jackson turbidity units
[4]minimum dissolved oxygen level of measurements taken
[5]maximum temperature of temperatures taken
[6]unknown
[7]estimated from flow/stage height relationship
[8]estimated
<less than
>greater than

Appendix E

Nutrient information

Table E-1. Nutrient information from monitoring in the Blackfoot River subbasin.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)		Ammonia (mg N/l)		Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)		Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)		Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)		Source
Blackfoot R	12-Dec-85	nr mouth		1						0.54		1.76						0.01	<				Crist and Holden 1986
	15-May-86	nr mouth		1						0.42		1.22						0.037					Crist and Holden 1986
	5-Sep-86	nr mouth		1						1.12		0.96						0.046					Crist and Holden 1986
	15-Nov-86	nr mouth		1						0.23		1.65						0.01	<				Crist and Holden 1986
	1975	at Blackfoot		1		0.4											0.13						Balmer and Noble 1979
	7-Oct-81	nr Blackfoot		1				0.010	<	0.16		1.16	0.17					0.01	<				DEQ, unpublished data
	9-Nov-81	nr Blackfoot		1				0.300		0.038		0.31	0.11					0.08					DEQ, unpublished data
	1-Dec-81	nr Blackfoot		1				0.340		0.032		0.3	0.14					0.1					DEQ, unpublished data
	12-Jan-82	nr Blackfoot		1				0.251		0.07		0.6	0.18					0.12					DEQ, unpublished data
	3-Feb-82	nr Blackfoot		1				0.518		0.064		1.3	0.25					0.16					DEQ, unpublished data
	16-Mar-82	nr Blackfoot		1				0.081		0.042		0.9	0.16					0.08					DEQ, unpublished data
	29-Apr-82	nr Blackfoot		1				0.527		0.106		0.75	0.31					0.07					DEQ, unpublished data
	11-May-82	nr Blackfoot		1				0.207		0.048		0.95	0.34					0.033					DEQ, unpublished data
	8-Jun-82	nr Blackfoot		1				0.073		0.031		0.85	0.06					0.07					DEQ, unpublished data
	13-Jul-82	nr Blackfoot		1				0.028		0.079		0.74	0.16					0.03					DEQ, unpublished data
	9-Aug-82	nr Blackfoot		1				0.108		0.053		0.518	0.11					0.03					DEQ, unpublished data
	21-Sep-82	nr Blackfoot		1				0.041		0.033		0.3	0.06					0.008					DEQ, unpublished data
	22-Nov-88	nr Blackfoot		1				0.260		0.023		0.24	0.05	<							0.001	<	DEQ, unpublished data
	19-Dec-88	nr Blackfoot		1				0.445		0.036		0.18	0.05	<							0.005		DEQ, unpublished data
	21-Mar-89	nr Blackfoot		1				0.344		0.058		0.41	0.09								0.01		DEQ, unpublished data
	18-Apr-89	nr Blackfoot		1				0.724		0.047		1.03	0.31								0.022		DEQ, unpublished data
	17-May-89	nr Blackfoot		1				0.059		0.066		0.42	0.06								0.001	<	DEQ, unpublished data
	21-Jun-89	nr Blackfoot		1				0.008		0.066		0.47	0.07								0.006		DEQ, unpublished data
	12-Dec-85	immediately bel Equalizing Dam		1						0.38		1.84						0.01					Crist and Holden 1986
	15-May-86	immediately bel Equalizing Dam		1						0.24		1.3						0.034					Crist and Holden 1986
	5-Sep-86	immediately bel Equalizing Dam		1						0.35		0.8						0.023					Crist and Holden 1986
	15-Nov-86	immediately bel Equalizing Dam		1						0.11		1.42						0.026					Crist and Holden 1986
	1975, 1977	Rich Lane crossing		2		0.6				0.08							0.14						Balmer and Noble 1979
	12-Dec-85	0.5 mi ab Rich Lane bridge		1						0.42		1.2						0.01	<				Crist and Holden 1986
	15-May-86	0.5 mi ab Rich Lane bridge		1						0.2		1.02						0.038					Crist and Holden 1986
	5-Sep-86	0.5 mi ab Rich Lane bridge		1						0.1	<	0.96						0.018					Crist and Holden 1986
	15-Nov-86	0.5 mi ab Rich Lane bridge		1						0.1	<	0.8						0.012					Crist and Holden 1986
	28-Sep-99	at Rich Lane bridge		1				0.050	<	0.05	<	0.7	0.05	<				0.05	<				DEQ, unpublished data
	19-Nov-86	Reid Bridge						0.240		0.027		0.38	0.1			0.002							Drewes 1987
	17-Feb-87	Reid Bridge	225					0.553		0.025		0.15	0.05	<						0.025			Drewes 1987
	2-Mar-87	Reid Bridge	118					0.334		0.119		1.52	0.39							0.061			Drewes 1987
	16-Mar-87	Reid Bridge	336					0.275		0.053		0.56	0.18							0.038			Drewes 1987
	30-Mar-87	Reid Bridge	350					0.124		0.032		0.46	0.19							0.057			Drewes 1987
	13-Apr-87	Reid Bridge	275					0.014		0.018		0.4	0.09							0.019			Drewes 1987
	4-May-87	Reid Bridge	375					0.156		0.055		0.95	0.3							0.039			Drewes 1987
	19-May-87	Reid Bridge	275					0.212		0.054		0.98	0.6										Drewes 1987
	2-Jun-87	Reid Bridge	560					0.005		0.014		0.39	0.05	<		0.008							Drewes 1987
	15-Jun-87	Reid Bridge	300					0.041		0.053		0.73	0.24			0.006							Drewes 1987
	6-Jul-87	Reid Bridge	300					0.041		0.04		0.54	0.11							0.005			Drewes 1987
	19-Nov-86	USGS gage site nr Shelley	344					0.342		0.041		0.38	0.1	<		0.002							Drewes 1987
	17-Feb-87	USGS gage site nr Shelley	122					0.498		0.084		0.34	0.09							0.018			Drewes 1987
	2-Mar-87	USGS gage site nr Shelley	317					0.328		0.111		1.78	0.52							0.023			Drewes 1987
	16-Mar-87	USGS gage site nr Shelley	400					0.267		0.052		0.58	0.16							0.031			Drewes 1987
	30-Mar-87	USGS gage site nr Shelley	365					0.173		0.041		0.48	0.09							0.018			Drewes 1987
	13-Apr-87	USGS gage site nr Shelley	224					0.023		0.023		0.49	0.09							0.008			Drewes 1987
	4-May-87	USGS gage site nr Shelley	666					0.130		0.057		0.93	0.21							0.034			Drewes 1987
	19-May-87	USGS gage site nr Shelley	868					0.195		0.043		0.68	0.27										Drewes 1987
	2-Jun-87	USGS gage site nr Shelley	713					0.010		0.018		0.44	0.06			0.008							Drewes 1987
	15-Jun-87	USGS gage site nr Shelley	918					0.037		0.038		0.42	0.07			0.008							Drewes 1987
	6-Jul-87	USGS gage site nr Shelley	968					0.042		0.073		0.49	0.08							0.008			Drewes 1987
	12-Dec-85	between Wolverine Cr & The Cove		1						0.29		1						0.01	<				Crist and Holden 1986
	15-May-86	between Wolverine Cr & The Cove		1						0.21		0.86						0.018					Crist and Holden 1986
	5-Sep-86	between Wolverine Cr & The Cove		1						0.1	<	0.72						0.036					Crist and Holden 1986
	15-Nov-86	between Wolverine Cr & The Cove		1						0.1	<	0.6						0.031					Crist and Holden 1986
	28-Sep-99	at The Cove	391.58	1				0.930		0.05	<	1.1	0.05	<				0.05	<				DEQ, unpublished data

Table E-1. Continued.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Ammonia (mg N/l)	Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)	Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)	Source
Blackfoot Ri	15-May-86	immediately downstream of Trail Cr bridge		1					0.1 <	0.09					0.022			Crist and Holden 1986
	5-Sep-86	immediately downstream of Trail Cr bridge		1					0.1 <	0.74					0.042			Crist and Holden 1986
	15-Nov-86	immediately downstream of Trail Cr bridge		1					0.1 <	0.32					0.01 <			Crist and Holden 1986
	30-Mar-87	at Trail Creek	240					0.207	0.076	0.46	0.09					0.019		Drewes 1987
	13-Apr-87	at Trail Creek	225					0.034	0.034	0.73	0.12					0.025		Drewes 1987
	4-May-87	at Trail Creek	425					0.026	0.089	0.73	0.15					0.027		Drewes 1987
	2-Jun-87	at Trail Creek	425					0.025	0.028	0.51	0.06		0.011					Drewes 1987
	15-Jun-87	at Trail Creek	325					0.014	0.051	0.66	0.05		0.001					Drewes 1987
	6-Jul-87	at Trail Creek	350					0.012	0.045	0.48	0.08					0.012		Drewes 1987
	28-Sep-99	Trail Creek bridge	368.55	1				0.890	0.05 <	1.1	0.05 <				0.05 <			DEQ, unpublished data
	8-Oct-96	ab Morgan Bridge		1				0.540					0.061	0.008				Royer and Minshall 1998
	28-Sep-99	at Morgan Bridge		1				0.970	0.05 <	1	0.05 <				0.05 <			DEQ, unpublished data
	Oct-75-Sep-76	bel reservoir		4-6		0.39			0.36	1.7	0.12				0.09 [1]			McSorley 1977
	summer 1977	below dam	13	4-6		0.08	0.01		0.15	1.16	0.11				0.04			Perry 1977
	29-Oct-98	at Government Dam bridge		1				0.017	0.03		0.08				0.009			DEQ, unpublished data
	28-Sep-99	at Government Dam bridge		1				0.910	0.18	1.2	0.05 <				0.05 <			DEQ, unpublished data
	Oct-75-Sep-76	ab reservoir		5-8		0.19			0.2	1.3	0.1				0.06 [1]			McSorley 1977
	summer 1977	nr upper end of Reservoir	16	6		0.04	0.01		0.08	0.77	0.06				0.03			Perry 1977
	6-Nov-78	at Henry		1														DEQ, unpublished data
	20-Mar-79	at Henry		1														DEQ, unpublished data
	9-May-79	at Henry		1														DEQ, unpublished data
	5-Nov-79	at Henry	79.7	1														DEQ, unpublished data
	19-Mar-80	at Henry		1														DEQ, unpublished data
	25-Jun-80	at Henry		1														DEQ, unpublished data
	20-Aug-80	at Henry		1														DEQ, unpublished data
	17-Nov-80	at Henry		1														DEQ, unpublished data
	17-Feb-81	at Henry		1														DEQ, unpublished data
	19-May-81	at Henry		1														DEQ, unpublished data
	25-Aug-81	at Henry		1														DEQ, unpublished data
	24-Nov-81	at Henry		1														DEQ, unpublished data
	24-Feb-82	at Henry		1														DEQ, unpublished data
	25-May-82	at Henry		1				0.019	0.024	0.35	0.18				0.061			DEQ, unpublished data
	4-Aug-82	at Henry		1				0.018	0.047	0.234	0.08				0.04			DEQ, unpublished data
	Oct-75-Sep-76	bel Slug Creek		5-6		0.05			0.04	1	0.09				0.05 [1]			McSorley 1977
	summer 1977	bel Slug Creek	17	5-6		0.04	0.003		0.08	0.93	0.08				0.04			Perry 1977
	19-Mar-80	bel Slug Creek	59.6	1														DEQ, unpublished data
	May-89	bel Dry Valley Creek		1					0.07		0.103		0.3					Mariah Associates 1990
	Oct-89	bel Dry Valley Creek		1					0.01 <		0.005 <		0.1					Mariah Associates 1990
	Nov-96-Oct-98	bel Dry Valley Creek		4				0.100 <	<0.6-9.7		<0.02-0.2							BLM et al. 1999
	May-89	ab Dry Valley Creek		1					0.05		0.096		0.3					Mariah Associates 1990
	Oct-89	ab Dry Valley Creek		1					0.01 <		0.005 <		0.1					Mariah Associates 1990
	May-97-Oct-98	ab Dry Valley Creek		3				0.100 <	<0.6-<1.0		<0.02-0.1							BLM et al. 1999
	Aug-74-Jul-75	bel Forest Service boundary		25-40		0.131	0.000			2.23	0.106	0.112						Platts and Primbs 1976
	summer 1977	between Dry Valley & Angus creeks	18	5-6		0.03	0.01		0.05	0.7	0.07				0.03			Perry 1977
	9-May-79	at the Narrows		1														DEQ, unpublished data
	5-Nov-79	at the Narrows	21	1														DEQ, unpublished data
	25-Jun-80	at the Narrows		1														DEQ, unpublished data
	20-Aug-80	at the Narrows	111.86	1														DEQ, unpublished data
	13-Nov-80	at the Narrows	106.5	1														DEQ, unpublished data
	17-Feb-81	at the Narrows	90.9	1														DEQ, unpublished data
	21-May-81	at the Narrows	289	1														DEQ, unpublished data
	25-Aug-81	at the Narrows	53.6	1														DEQ, unpublished data
	24-Nov-81	at the Narrows		1														DEQ, unpublished data
	25-May-82	at the Narrows		1				0.013	0.02	0.43	0.18				0.055			DEQ, unpublished data
	4-Aug-82	at the Narrows		1				0.024	0.088	0.15	0.06				0.04			DEQ, unpublished data
	1970-1974	bel Angus Creek		4-14	2.5	0.17	0.001		0.01		0.25			0.14	0.03 [1]			Platts and Primbs 1976
	1970-1974	ab Angus Creek		4-14	2.5	0.01	0.001		0.02		0.24			0.26	0.08 [1]			Platts and Primbs 1976
	1970-1976	nr Angus Creek		8-117		0.1	0		0.02	1.7	0.2					0.09		Platts and Martin 1978
	11-Dec-74	ab Angus Creek	70	1				0.08 [2]		0.3		0.11						USGS Water Resources Data repo
	Oct-75-Sep-76	bel Diamond Creek		5-7		0.03			0.06	1.02	0.1				0.07 [1]			McSorley 1977
	summer 1977	at confluence of Lanes & Diamond creeks	19	5-6		0.06	0.002		0.06	0.61	0.1				0.04			Perry 1977

Table E-1. Continued.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Ammonia (mg N/l)	Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)	Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)	Source
Reservation Canal	28-Sep-99	Weeding Lane bridge		1				0.050 <	0.050 <	0.500	0.050 <				0.050 <			DEQ, unpublished data
Lincoln Creek	1975-1977	near mouth		3		0.3			0.19					0.16				Balmer and Noble 1979
	1975-1977	recorder station		24		0.3			0.05					0.21				Balmer and Noble 1979
	1975, 1976	Dry Hollow Road crossing		2		0.3			0.11					0.06				Balmer and Noble 1979
Cold Creek	1975-1977	Lincoln Creek Road crossing		24		0.4			0.03					0.38				Balmer and Noble 1979
Garden Creek	1975-1977	power line crossing		22		0.3			0.06					0.41				Balmer and Noble 1979
Wolverine Creek	28-Sep-99	nr mouth	10.83	1				0.880	0.05 <	0.5	0.05 <				0.05 <			DEQ, unpublished data
	19-Nov-86	Blackfoot River Road						0.153	0.014	0.08	0.1 <		0.005					Drewes 1987
	17-Feb-87	Blackfoot River Road	7.8					0.245	0.058	0.34	0.17					0.014		Drewes 1987
	2-Mar-87	Blackfoot River Road	19.2					0.194	0.088	5.44	3.47					0.012		Drewes 1987
	16-Mar-87	Blackfoot River Road	13.5					0.151	0.023	0.51	0.38					0.003		Drewes 1987
	30-Mar-87	Blackfoot River Road	9.6					0.130	0.026	0.38	0.35					0.01		Drewes 1987
	13-Apr-87	Blackfoot River Road	20.9					0.091	0.024	0.47	0.32					0.005		Drewes 1987
	4-May-87	Blackfoot River Road	10.6					0.075	0.059	0.31	0.19					0.027		Drewes 1987
	19-May-87	Blackfoot River Road	15.1					0.136	0.033	0.55	0.25							Drewes 1987
	2-Jun-87	Blackfoot River Road	16.3					0.066	0.017	0.33	0.16		0.009					Drewes 1987
	15-Jun-87	Blackfoot River Road	6.3					0.119	0.064	0.37	0.21		0.017					Drewes 1987
	6-Jul-87	Blackfoot River Road	0.3					0.055	0.107	0.15	0.05 <					0.005		Drewes 1987
	17-Feb-87	HH A-Frame Home	7					0.140	0.151	0.13	0.05 <					0.008		Drewes 1987
	2-Mar-87	HH A-Frame Home	11.5					0.193	0.024	0.73	0.98					0.008		Drewes 1987
	16-Mar-87	HH A-Frame Home	9.1					0.132	0.019	0.07	0.05 <					0.003		Drewes 1987
	30-Mar-87	HH A-Frame Home	10.2					0.133	0.036	0.1	0.04					0.002		Drewes 1987
	13-Apr-87	HH A-Frame Home	18.8					0.128	0.017	0.11	0.05 <					0.003		Drewes 1987
	4-May-87	HH A-Frame Home	19.1					0.038	0.034	0.15	0.05 <					0.001		Drewes 1987
	19-May-87	HH A-Frame Home	5.3					0.119	0.014	0.17	0.05							Drewes 1987
	2-Jun-87	HH A-Frame Home	6.9					0.088	0.014	0.09	0.05 <		0.003					Drewes 1987
	15-Jun-87	HH A-Frame Home	6.1					0.040	0.076	0.05	0.05 <		0.007					Drewes 1987
	6-Jul-87	HH A-Frame Home	6.2					0.018	0.052	0.1	0.05 <					0.005		Drewes 1987
Jones Creek	19-Nov-86	mouth						0.251	0.014	0.65	0.41		0.038					Drewes 1987
	17-Feb-87	mouth	2.9					0.494	0.547	0.51	0.37					0.041		Drewes 1987
	2-Mar-87	mouth	2.6					0.468	0.075	2.16	1.37					0.1		Drewes 1987
	16-Mar-87	mouth	1.7					0.398	0.801	6.41	4.77					0.031		Drewes 1987
	30-Mar-87	mouth	0.4					2.370	0.032	0.63	0.4					0.024		Drewes 1987
	13-Apr-87	mouth	1.2					0.362	0.034	2.95	2.48					0.041		Drewes 1987
	4-May-87	mouth	3.8					0.167	0.019	0.92	0.59					0.026		Drewes 1987
	19-May-87	mouth	1.7					0.229	0.04	2.44	2.8							Drewes 1987
	2-Jun-87	mouth	0.9					0.128	0.027	0.96	0.43		0.025					Drewes 1987
	15-Jun-87	mouth	0.6					0.093	0.035	0.38	0.11		0.003					Drewes 1987
	6-Jul-87	mouth	0.7					0.029	0.077	0.42	0.1					0.005		Drewes 1987
Cedar Creek	19-Nov-86	Blackfoot River Road						0.342	0.034	0.33	0.15		0.038					Drewes 1987
	17-Feb-87	Blackfoot River Road	2.8					0.108	0.062	0.3	0.08					0.035		Drewes 1987
	2-Mar-87	Blackfoot River Road	8.3					0.403	0.205	20.1	14.2							Drewes 1987
	16-Mar-87	Blackfoot River Road	2.1					0.288	0.074	0.8	0.39					0.022		Drewes 1987
	30-Mar-87	Blackfoot River Road	1.5					0.509	0.041	1.49	0.95					0.05		Drewes 1987
	13-Apr-87	Blackfoot River Road	4.2					0.218	0.034	0.53	0.21					0.033		Drewes 1987
	4-May-87	Blackfoot River Road	2.6						0.058	0.45	0.13					0.02		Drewes 1987
	19-May-87	Blackfoot River Road	0.6					0.188	0.034	0.66	0.24							Drewes 1987
	2-Jun-87	Blackfoot River Road	1.2					0.170	0.041	0.42	0.14		0.034					Drewes 1987
	15-Jun-87	Blackfoot River Road	2.4					0.240	0.059	0.5	0.13		0.031					Drewes 1987
	6-Jul-87	Blackfoot River Road	2.4					0.268	0.11	0.48	0.12					0.011		Drewes 1987
	28-Sep-99	Blackfoot River Road	1.08	1				0.870	0.05 <	0.6	0.05 <				0.05 <			DEQ, unpublished data
	16-Mar-87	Cattlemens Assoc. gate	1.9					0.084	0.012	0.54	0.35					0.016		Drewes 1987
	30-Mar-87	Cattlemens Assoc. gate	1.4					0.089	0.045	2.55	2.39					0.014		Drewes 1987
	13-Apr-87	Cattlemens Assoc. gate	1.4					0.059	0.025	0.53	0.2					0.022		Drewes 1987
	4-May-87	Cattlemens Assoc. gate	1.3					0.003	0.034	0.78	0.23					0.004		Drewes 1987
	19-May-87	Cattlemens Assoc. gate	1.1					0.011	0.018	1.11	0.36							Drewes 1987
	2-Jun-87	Cattlemens Assoc. gate	0.9					0.018	0.083	0.47	0.11		0.025					Drewes 1987
	15-Jun-87	Cattlemens Assoc. gate	1.2					0.008	0.041	0.44	0.1		0.024					Drewes 1987
	6-Jul-87	Cattlemens Assoc. gate	0.8					0.009	0.061	0.57	0.13					0.011		Drewes 1987
	16-Mar-87	Cattlemens Assoc. cabin	0.9					0.146	0.017	0.44	0.2					0.027		Drewes 1987
	15-Jun-87	Cattlemens Assoc. cabin	0.6					0.035	0.038	0.7	0.18		0.034					Drewes 1987

Table E-1. Continued.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Ammonia (mg N/l)	Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)	Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)	Source
Wood Creek	1975-1977	Portneuf Presto Trail crossing		12		0.3			0.04					0.32				Balmer and Noble 1979
Short Creek	1975, 1976	Portneuf Presto Trail crossing		5		0.3			0					0.28				Balmer and Noble 1979
Miner Creek	19-Nov-86	mouth						0.036	0.02	0.42	0.2					0.044		Drewes 1987
	16-Mar-87	mouth	0.2					0.036	0.017	0.45	0.14					0.037		Drewes 1987
	30-Mar-87	mouth	2.6					0.062	0.02	0.39	0.17					0.024		Drewes 1987
	13-Apr-87	mouth	1.5					0.026	0.022	0.29	0.07							Drewes 1987
	04-May-87	mouth	2.4					0.024	0.011	0.44	0.09					0.028		Drewes 1987
	19-May-87	mouth	3					0.112	0.045	0.49	0.16							Drewes 1987
	02-Jun-87	mouth	1.9					0.020	0.076	1.54	0.58		0.057					Drewes 1987
	15-Jun-87	mouth	4.2					0.021	0.035	0.28	0.08		0.034					Drewes 1987
	06-Jul-87	mouth	3.4					0.007	0.042	0.21	0.06					0.023		Drewes 1987
	28-Sep-99	Blackfoot River Road	2.43	1				0.050 <	0.05 <	0.5	0.05 <				0.05 <			DEQ, unpublished data
Beaver Creek	1976	Portneuf Presto Trail crossing		1		0.3			0					0.41				Balmer and Noble 1979
	28-Sep-99	nr mouth	0.47	1				0.920	0.05 <	0.6	0.05 <				0.05 <			DEQ, unpublished data
Trail Creek	28-Sep-99	nr Trail Creek bridge	0.2	1				0.050 <	0.05 <	2	0.05 <				0.05 <			DEQ, unpublished data
Brush Creek	28-Sep-99	bel confluence with Rawlins Creek	21.81	1				0.050 <	0.05 <	0.5	0.05 <				0.05 <			DEQ, unpublished data
Deadman Creek	1975-1977	Portneuf Presto Trail crossing		10		0.3			0.05					0.3				Balmer and Noble 1979
Deadman/Supon creeks	28-Sep-99	bel confluence of the two creeks	0.44	1				0.930	0.05 <	1	0.05 <				0.05 <			DEQ, unpublished data
Grave Creek	28-Sep-99	at road crossing west of campground	0.17	1				0.050 <	0.05 <	0.6	0.05 <				0.05 <			DEQ, unpublished data
Corral Creek	28-Sep-99	bel bridge crossing	9.7	1				1.080	0.05 <	0.7	0.05 <				0.05 <			DEQ, unpublished data
Meadow Creek	summer 1977	nr mouth	14	6		0.07	0.01		0.05	0.77	0.07				0.04			Perry 1977
	06-Nov-78	at mouth	16	1														DEQ, unpublished data
	16-May-79	at mouth		1														DEQ, unpublished data
	09-Nov-79	at mouth	28.2	1														DEQ, unpublished data
	19-Mar-80	at mouth	18.5	1														DEQ, unpublished data
	25-Jun-80	at mouth		1														DEQ, unpublished data
	20-Aug-80	at mouth	8.79	1														DEQ, unpublished data
	17-Nov-80	at mouth	5.5	1														DEQ, unpublished data
	17-Feb-81	at mouth		1														DEQ, unpublished data
	19-May-81	at mouth	16	1														DEQ, unpublished data
	25-Aug-81	at mouth	8.96	1														DEQ, unpublished data
	24-Nov-81	at mouth		1														DEQ, unpublished data
	24-Feb-82	at mouth		1														DEQ, unpublished data
	25-May-82	at mouth		1				0.005	0.028	0.75	0.14				0.024			DEQ, unpublished data
	04-Aug-82	at mouth		1				0.008	0.115	0.517	0.06				0.03			DEQ, unpublished data
Little Blackfoot River	summer 1977	nr mouth	15	5-6		0.05	0.02		0.05	0.58	0.03				0.05			Perry 1977
	06-Nov-78	at mouth	38	1														DEQ, unpublished data
	20-Mar-79	at mouth		1														DEQ, unpublished data
	09-May-79	at mouth		1														DEQ, unpublished data
	05-Nov-79	at mouth	40.4	1														DEQ, unpublished data
	19-Mar-80	at mouth	9.46	1														DEQ, unpublished data
	25-Jun-80	at mouth	8	1														DEQ, unpublished data
	20-Aug-80	at mouth	15.63	1														DEQ, unpublished data
	17-Nov-80	at mouth	13.2	1														DEQ, unpublished data
	17-Feb-81	at mouth	10.8	1														DEQ, unpublished data
	19-May-81	at mouth	13.6	1														DEQ, unpublished data
	25-Aug-81	at mouth	8.4	1														DEQ, unpublished data
	24-Nov-81	at mouth		1														DEQ, unpublished data
	24-Feb-82	at mouth		1														DEQ, unpublished data
	25-May-82	at mouth		1				0.024	0.028	0.56	0.1				0.01			DEQ, unpublished data
	04-Aug-82	at mouth		1				0.034	0.044	0.145	0.03				0.01			DEQ, unpublished data
	25-Aug-86	ab Dredge Spring		1						0.18	0.1 <							DEQ, unpublished data
Trail Creek	May-Oct-79	lower	2.7-5.9	4														USDA and USDI 1981
	Oct-80	middle	3	1		0.01					0.38							USDA and USDI 1981
	Oct-80	upper	2.99	1		0.44					0.29							USDA and USDI 1981
Slug Creek	Oct-80	lower	7.43	1		0.11					0.73							USDA and USDI 1981
	Oct-80	middle	8.7	1		0.01					0.77							USDA and USDI 1981
	Oct-80	upper	3.76	1		0.11					0.6							USDA and USDI 1981
Goodheart Creek	May-92		0.063	1		0.1	0.01	0.100	0.13		0.239				0.024 [1]			Mariah Associates 1993a
	15-Jun-87	Cattlemens Assoc. cabin	0.6					0.035	0.038	0.7	0.18		0.034					Drewes 1987

Table E-1. Continued.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Ammonia (mg N/l)	Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)	Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)	Source
Dry Valley Creek	May-Oct-79	nr mouth	0.54-15	4														USDA and USDI 1981
	May-89	lowest		1					0.04		0.056		0.2					Mariah Associates 1990
	Oct-89	lowest		1					0.09		0.02		0.1					Mariah Associates 1990
	May-97-Oct-98	nr mouth		3				<0.1-0.1	<0.6-1.0		0.1							BLM et al. 1999
	May-77	lower		1									0.17					Aware 1979 (cited in Mariah Associates 1990)
	May-78	lower		1									0.082					Aware 1979 (cited in Mariah Associates 1990)
	May-79	lower	11.9	1									0.243					Aware 1979 (cited in Mariah Associates 1990)
	Sep-77	lower		1									0.24					Aware 1979 (cited in Mariah Associates 1990)
	Oct-78	lower	0.7	1									0.31					Aware 1979 (cited in Mariah Associates 1990)
	May-89	lower		1					0.06		0.054		0.2					Mariah Associates 1990
	Oct-89	lower		1					0.01	<	0.044		0.1					Mariah Associates 1990
	Nov-96-Sep-98	ab Maybe Canyon Creek		3				0.1	< 0.6-1.0		<0.02-<0.1							BLM et al. 1999
	May-89	middle		1					0.07		0.052		0.2					Mariah Associates 1990
	Nov-96-Sep-98	middle		4				0.1	< <0.6-1.6		<0.1-0.1							BLM et al. 1999
	May-77	upper	0.4	1									0.293					Aware 1979 (cited in Mariah Associates 1990)
	May-78	upper	1.5	1									0.139					Aware 1979 (cited in Mariah Associates 1990)
	May-79	upper	0.8	1									0.153					Aware 1979 (cited in Mariah Associates 1990)
	Sep-77	upper	0.4	1									0.15					Aware 1979 (cited in Mariah Associates 1990)
	Oct-78	upper	0.2	1									0.125					Aware 1979 (cited in Mariah Associates 1990)
	May-89	upper		1					0.1		0.13		0.4					Mariah Associates 1990
	Oct-89	upper		1					0.01	<	0.073		0.2					Mariah Associates 1990
	May-97-Sep-98	upper		3				0.1	< <0.6-<1.0		0.02-0.7							BLM et al. 1999
Chicken Creek	May-97-Nov-98	ab mouth		3				0.1-2.2	<0.6-<1.0		0.1-0.4							BLM et al. 1999
Maybe Canyon Creek	May-Oct-79		0.09-0.69	4														USDA and USDI 1981
	Nov-96-Nov-98	ab mouth		3				0.7-0.9	<0.6-<1.0		0.06-0.1							BLM et al. 1999
Caldwell Creek	May-98			2				0.1-0.4	1.0	<	<0.1-0.1							BLM et al. 1999
Stewart creeks	May-98	north and south creeks		2				0.1	1.0	<	0.1							BLM et al. 1999
NDR Creek	May-92		0.037	1		0.16	0.01	0.160	0.05	<	0.069				0.061 [1]			Mariah Associates 1993a
Mill Canyon Creek	1970-1974			8		0.28	0.001		0.01		0.07			0.13	0.03 [1]			Platts and Primbs 1976
Angus Creek	1970-1974	Blackfoot River Rd to upper Little Long Valley		17-83	3.4	0.25	0.004		0.02		0.34			0.24	0.09 [1]			Platts and Primbs 1976
	1970-1976	Blackfoot River Rd to upper Narrows		17-253		0.21	0.04		0.02	1.8	0.22					0.11		Platts and Martin 1978
	Aug-Oct-74	lower		11							0.07							BLM and USFS 1976 (cited in Mariah Associates 1992a)
	Aug-74-Jul-75	0.5 mile ab Forest Service boundary		20-35		0.143	0.058			1.89	0.131	5.07						Platts and Primbs 1976
	11-Dec-74	nr mouth	1.5	1				3.4 [2]		0.08		0.05						USGS Water Resources Data report
	Oct-90	lower		1					0.09		0.064							Mariah Associates 1992a
	May-91	lower		1					0.02	<	0.1				0.02 [1]			Mariah Associates 1992a
	Oct-91	lower		1					0.17		0.127				0.029 [1]			Mariah Associates 1992a
	May-92	lower		1					0.05		0.067				0.043 [1]			Mariah Associates 1992a
	Oct-90	middle		1					0.08		0.05							Mariah Associates 1992a
	May-91	middle		1					0.02	<	0.12				0.05 [1]			Mariah Associates 1992a
	Oct-91	middle		1					0.15		0.103				0.037 [1]			Mariah Associates 1992a
	Aug-Oct-74	upper		8							0.02							BLM and USFS 1976 (cited in Mariah Associates 1992a)
	Oct-90	upper		1					0.32		0.393							Mariah Associates 1992a
	May-91	upper		1					0.02	<	0.04				0.01	<[1]		Mariah Associates 1992a
	Oct-91	upper		1					0.13		0.101				0.024 [1]			Mariah Associates 1992a
	May-92	upper		1					0.06		0.069				0.033 [1]			Mariah Associates 1992a
	Aug-74-Jul-75	nr headwaters		24-37		0.3	0.050			2.6	0.2	0.15						Platts and Primbs 1976
	1971-1973				2.9	0.2	0.001				0.34			0.21				Platts 1975
Rasmussen Creek	Oct-90	middle		1					0.05	<	0.046							Mariah Associates 1992a
	May-91	middle		1					0.09		0.07				0.03 [1]			Mariah Associates 1992a
	Oct-91	middle		1					0.14		0.199				0.016 [1]			Mariah Associates 1992a
	May-92	middle		1					0.05	<	0.053				0.022 [1]			Mariah Associates 1992a
	Oct-90	upper		1					0.05	<	0.001							Mariah Associates 1992a
	May-91	upper		1					0.05		0.07				0.04 [1]			Mariah Associates 1992a
	Oct-91	upper		1					0.15		0.085				0.005 <[1]			Mariah Associates 1992a
	May-92	upper		1					0.09		0.04				0.04 [1]			Mariah Associates 1992a

Table E-1. Continued.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Ammonia (mg N/l)	Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)	Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)	Source
No Name Creek	Oct-90	lowest	dry	1														Mariah Associates 1992a
	May-91	lowest		1					0.02 <		0.16				0.11 [1]			Mariah Associates 1992a
	Oct-91	lowest	dry	1														Mariah Associates 1992a
	May-92	lowest	dry	1														Mariah Associates 1992a
	Oct-90	lower	dry	1														Mariah Associates 1992a
	May-91	lower		1					0.02 <		0.15				0.11 [1]			Mariah Associates 1992a
	Oct-91	lower		1					0.14		0.158				0.111 [1]			Mariah Associates 1992a
	May-92	lower		1					0.06		0.144				0.105 [1]			Mariah Associates 1992a
	Oct-90	middle		1					0.13		0.081							Mariah Associates 1992a
	May-91	middle		1					0.02 <		0.16				0.1 [1]			Mariah Associates 1992a
	Oct-91	middle		1					0.14		0.12				0.053 [1]			Mariah Associates 1992a
	May-92	middle		1					0.06		0.103				0.076 [1]			Mariah Associates 1992a
	Oct-90	upper		1					0.17		0.128							Mariah Associates 1992a
	May-91	upper		1					0.07		0.12				0.07 [1]			Mariah Associates 1992a
	Oct-91	upper		1					0.14		0.092				0.022 [1]			Mariah Associates 1992a
	May-92	upper		1					0.05 <		0.105				0.064 [1]			Mariah Associates 1992a
Spring Creek	Oct-90	bel Mill Creek		1		0.02	0.01	0.02 <	0.12		0.024			0.005				Mariah Associates 1991a
	May-91	bel Mill Creek		1		0.03	0.01	0.02	0.02 <		0.12			0.03				Mariah Associates 1993a
	Oct-91	bel Mill Creek		1		0.15	0.01	0.14	0.07		0.05 <			0.02				Mariah Associates 1993a
	May-92	bel Mill Creek		1		0.14	0.01	0.14 <	0.06		0.043			0.024				Mariah Associates 1993a
	Oct-90	ab Mill Creek		1		0.02	0.01	0.02 <	0.11		0.019			0.01				Mariah Associates 1991a
	May-91	ab Mill Creek		1		0.02	0.01	0.02 <	0.02 <		0.04			0.02				Mariah Associates 1993a
	Oct-91	ab Mill Creek		1		0.13	0.01	0.14	0.06		0.05 <			0.01				Mariah Associates 1993a
	May-92	ab Mill Creek		1		0.12	0.01	0.12	0.06		0.049			0.019				Mariah Associates 1993a
Mill Creek	Aug-Nov-74	nr Forest Service boundary		12										0.08				BLM and USFS 1976 (cited in Mariah Associates 1992a)
	Aug-74-Jul-75	nr Forest Service boundary		23-38		0.161	0.000			2.02	0.204	0.114						Platts and Primbs 1976
	31-May-90	nr Forest Service boundary	2.4	1							0.111				0.036 [1]			Mariah Associates 1991a
	24-Jul-90	nr Forest Service boundary	2.2	1							0.043				0.005 <[1]			Mariah Associates 1991a
	28-Aug-90	nr Forest Service boundary	2.2	1							0.065				0.021 [1]			Mariah Associates 1991a
	01-Oct-90	nr Forest Service boundary	2.6	1							0.07				0.056 [1]			Mariah Associates 1991a
	23-Oct-90	nr Forest Service boundary	2.9	1		0.15	0.01	0.140	0.05 <		0.069				0.01 [1]			Mariah Associates 1991a
	15-Nov-90	nr Forest Service boundary	2.6	1							0.084				0.013 [1]			Mariah Associates 1991a
	May-91	nr Forest Service boundary	2.6	1		1.14	0.01	1.150	0.02 <		0.6				0.02 [1]			Mariah Associates 1993a
	Oct-91	nr Forest Service boundary	2.1	1		0.29	0.01	0.280	0.05		0.09				0.01 [1]			Mariah Associates 1993a
Lanes Creek	summer 1977		20	4-5		0.02	0.003		0.05	0.74	0.07				0.05			Perry 1977
	16-May-79	at mouth		1														DEQ, unpublished data
	09-Nov-79	at mouth	7.7	1														DEQ, unpublished data
	25-Jun-80	at mouth	11	1														DEQ, unpublished data
	20-Aug-80	at mouth	6.95	1														DEQ, unpublished data
	13-Nov-80	at mouth	9	1														DEQ, unpublished data
	21-May-81	at mouth	65	1														DEQ, unpublished data
	25-Aug-81	at mouth	3.2	1														DEQ, unpublished data
	24-Nov-81	at mouth		1														DEQ, unpublished data
	25-May-82	at mouth		1				0.021	0.022	0.49	0.15				0.053			DEQ, unpublished data
	04-Aug-82	at mouth		1				0.004	0.049	0.114	0.07				0.04			DEQ, unpublished data
Sheep Creek	Aug-Oct-74			11							0.03							BLM and USFS 1976 (cited in Mariah Associates 1992a)
	Oct-90	lowest		1					0.08		0.037							Mariah Associates 1992a
	May-91	lowest		1					0.05		0.11				0.04 [1]			Mariah Associates 1992a
	Oct-91	lowest		1					0.12		0.086				0.005 [1]			Mariah Associates 1992a
	May-92	lowest		1					0.05 <		0.051				0.028 [1]			Mariah Associates 1992a
	Oct-90	lower		1					0.08		0.015							Mariah Associates 1992a
	May-91	lower		1					0.05		0.1				0.03 [1]			Mariah Associates 1992a
	Oct-91	lower		1					0.11		0.147				0.011 [1]			Mariah Associates 1992a
	May-92	lower		1					0.05 <		0.051				0.03 [1]			Mariah Associates 1992a
	Oct-90	middle		1					0.08		0.021							Mariah Associates 1992a
	May-91	middle		1					0.02 <		0.1				0.03 [1]			Mariah Associates 1992a
	Oct-91	middle		1					0.11		0.9				0.005 <[1]			Mariah Associates 1992a
	May-92	middle		1					0.05 <		0.061				0.031 [1]			Mariah Associates 1992a

Table E-1. Continued.

Waterbody	Date	Site	Flow (cfs)	Number of samples	Total nitrogen (mg N/l)	Nitrate (mg N/l)	Nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Ammonia (mg N/l)	Total Kjeldahl nitrogen (mg/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphate (mg/l PO4)	Ortho phosphate (mg/l PO4)	Ortho phosphate (mg P/l)	Dissolved ortho phosphate (mg/l PO4)	Dissolved ortho phosphate (mg P/l)	Source
Sheep Creek	Oct-90	upper		1					0.08		0.019							Mariah Associates 1992a
	May-91	upper		1					0.02	<	0.07				0.03 [1]			Mariah Associates 1992a
	Oct-91	upper		1					0.14		0.097				0.006 [1]			Mariah Associates 1992a
	May-92	upper		1					0.07		0.059				0.031 [1]			Mariah Associates 1992a
	Oct-90	tributary		1					0.05		0.026				0.021 [1]			Mariah Associates 1992a
	May-91	tributary		1					0.05		0.25				0.14 [1]			Mariah Associates 1992a
	Oct-91	tributary		1					0.1		0.094				0.005 <[1]			Mariah Associates 1992a
	May-92	tributary		1					0.05	<	0.032				0.036 [1]			Mariah Associates 1992a
Diamond Creek	May-Oct-79	nr mouth	11-28	4														USDA and USDI 1981
	1970-1976			5-49		0.15	0			2.02	0.17					0.11		Platts and Martin 1978
	Oct-75-Sep-76	ab Kendall Creek		6-8		0.06			0.05	1	0.1				0.06 [1]			McSorley 1977
	summer 1977		21	5-6		0.04	0.002		0.07	0.62	0.05				0.03			Perry 1977
	Oct-80	bel Timber Creek	4.34	1		0.44					0.34							USDA and USDI 1981
	1974-1976	ab Stewart Canyon				0.11-0.24					0.14, 0.22							USDA and USDI 1981
	Oct-80	nr South Stewart Canyon	6.34	1		0.28					1.08							USDA and USDI 1981
	9-May-79	ab Alumet operation		1														DEQ, unpublished data
	5-Nov-79	ab Alumet operation	10.9	1														DEQ, unpublished data
	25-Jun-80	ab Alumet operation	12.5	1														DEQ, unpublished data
	20-Aug-80	ab Alumet operation	20.4	1														DEQ, unpublished data
	13-Nov-80	ab Alumet operation	10.8	1														DEQ, unpublished data
	21-May-81	ab Alumet operation	21	1														DEQ, unpublished data
	25-Aug-81	ab Alumet operation	9.3	1														DEQ, unpublished data
	24-Nov-81	ab Alumet operation		1														DEQ, unpublished data
	25-May-82	ab Alumet operation		1				0.034	0.017	0.31	0.3				0.062			DEQ, unpublished data
	4-Aug-82	ab Alumet operation		1				0.014	0.073	0.061	0.08				0.04			DEQ, unpublished data
Kendall Creek	1970-1974			6		0.21	0.002		0.01		0.04			0.05	0.02 [1]			Platts and Primbs 1976
	Aug-74-Jul-75	nr Forest Service boundary		17-22		0.144	0.008			1.95	0.118	0.06						Platts and Primbs 1976
	1970-1976			6-30		0.18	0.01			1.8	0.08					0.04		Platts and Martin 1978
Stewart Creek	21-Oct-81	lower	0.8	1		0.01	0.01		1.25						0.39			Mariah Associates 1982
	21-Oct-81	upper	1.5	1		1.5	0.01		0.82						0.48			Mariah Associates 1982
Timber Creek	Oct-80	nr mouth	0.57	1		64.64					2.22							USDA and USDI 1981
	Oct-80	upper	3.6	1		1.6					1.12							USDA and USDI 1981

<below detection limit

[1]not clear in report if concentration expressed as mg PO_4/l or mg P/l

[2]dissolved

Appendix F

USGS water quality information

Table F-1. Temperature, dissolved oxygen, and fecal coliform information from monitoring at USGS surface-water stations in the Blackfoot River subbasin, 1967-1996 (from USGS Water Resources Data reports).

Date	Flow (cfs)	Temperature (°C) nstantaneou	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
			near Blackfoot (13068500)			
8-Oct-97	208	9.5			12.6	51 [1]
16-Sep-97	250	14.5			11.1	360
28-Jul-97	241	21.5			8.7	470
9-Jun-97	282	19.5			8.4	2200
21-May-97	260	16			9	530
24-Apr-97	391	8			12.5	68
19-Sep-96	198	11.5			10.3	150
18-Sep-96			11.5	12.4		
17-Sep-96			12.2	13.3		
16-Sep-96			13.2	14.2		
15-Sep-96			15.2	16.6		
14-Sep-96			16.4	17.6		
13-Sep-96			17.2	18.7		
12-Sep-96			16.8	19.5		
11-Sep-96			16.7	17.7		
10-Sep-96			16.4	19		
9-Sep-96			16	19		
8-Sep-96			15.2	18.1		
7-Sep-96			14.9	17.6		
6-Sep-96			14.8	17.3		
5-Sep-96			16.4	17.9		
4-Sep-96			17.1	19.7		
3-Sep-96			16.7	19		
2-Sep-96			16.6	19		
1-Sep-96			17.4	19.7		
31-Aug-96			18.4	21		
30-Aug-96			18.9	21.2		
29-Aug-96			18.9	21.7		
28-Aug-96			18.9	21		
27-Aug-96			19.6	21.7		
26-Aug-96			19.3	22.3		
25-Aug-96			19.3	22.7		
24-Aug-96			19.2	23.3		
23-Aug-96			18.6	22.7		
22-Aug-96			18.4	22		
22-Aug-96	103	15.5			8.8	400
21-Aug-96			18.2	21.5		
20-Aug-96			17.8	20.5		
19-Aug-96			17.6	20.3		

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
			near Blackfoot (13068500)			
18-Aug-96			18.9	20.7		
17-Aug-96			20.3	21.8		
16-Aug-96			21.2	24.4		
15-Aug-96			21.6	25.1		
14-Aug-96			21.3	24.7		
13-Aug-96			21.5	24.5		
12-Aug-96			21	24.4		
11-Aug-96			20.5	24.2		
10-Aug-96			20.1	23.5		
9-Aug-96			19.6	23.3		
8-Aug-96			18.7	22.3		
7-Aug-96			17.6	20.8		
6-Aug-96			17.3	20		
5-Aug-96			17.1	20.2		
4-Aug-96			17.4	19.5		
3-Aug-96			19	20.7		
2-Aug-96			20.1	22.2		
1-Aug-96			20.9	22.8		
31-Jul-96			21.4	23.9		
30-Jul-96			21.2	23.9		
29-Jul-96			21.2	23.2		
28-Jul-96			21.4	23.2		
27-Jul-96			21.9	25.4		
26-Jul-96			21.7	25.2		
25-Jul-96			21.5	24.9		
24-Jul-96			21.5	25.1		
23-Jul-96			20.9	24.7		
22-Jul-96			20.2	23.9		
21-Jul-96			19.3	22.5		
20-Jul-96			19.2	21.8		
19-Jul-96			19.8	22.7		
18-Jul-96			20.2	22.7		
18-Jul-96	137	18			8.6	400
17-Jul-96			20.7	23.7		
16-Jul-96			20.8	23		
15-Jul-96			20.7	22		
14-Jul-96			21.4	24		
13-Jul-96			21.2	24.5		
12-Jul-96			21.2	24.7		
11-Jul-96			21	24.9		
10-Jul-96			21.2	24.4		

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Blackfoot (13068500)				
9-Jul-96			20.8	23.5		
8-Jul-96			20.1	23.2		
7-Jul-96			19.9	22.8		
6-Jul-96			19.7	22.8		
5-Jul-96			21.1	23.9		
4-Jul-96			21.8	25.4		
3-Jul-96			20.8	23.7		
2-Jul-96			20.9	24.7		
1-Jul-96			19.4	22.3		
30-Jun-96			18.1	20.7		
29-Jun-96			16.9	19.9		
28-Jun-96			17	19.2		
27-Jun-96			18.7	22.2		
26-Jun-96			18.3	21.5		
25-Jun-96			18.1	22.3		
24-Jun-96			17.7	21.2		
23-Jun-96			17.4	21.5		
22-Jun-96			17	20.3		
21-Jun-96			17	20.8		
20-Jun-96			16	18.7		
20-Jun-96	159	17.5			10.1	170
19-Jun-96			15.5	18.9		
18-Jun-96			16.5	18.5		
17-Jun-96			19.2	22		
16-Jun-96			20.1	23.2		
15-Jun-96			19.6	23.2		
14-Jun-96			19	22.3		
13-Jun-96			18.9	22.3		
12-Jun-96			18.5	21.2		
11-Jun-96			19.2	21.7		
10-Jun-96			19.7	22.5		
9-Jun-96			19.9	23.3		
8-Jun-96			19.7	23.3		
7-Jun-96			18.2	22.8		
6-Jun-96			17.5	21.5		
5-Jun-96			17	19.4		
4-Jun-96			17.1	19.7		
3-Jun-96			15.9	18.2		
2-Jun-96			14.7	16.9		
1-Jun-96			13.6	15.7		
31-May-96			12.8	14.2		

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)	
			near Blackfoot (13068500)				
30-May-96			12	13.6			
29-May-96			11.8	12.4			
28-May-96			13	13.5			
27-May-96			12.6	14.2			
26-May-96			12.5	12.9			
25-May-96			12.4	13.5			
24-May-96			11.9	13.9			
23-May-96	309	13			7.4	290	
25-Apr-96	221	8.5			13	94	
19-Sep-95	45	18.5			10.5	120	
14-Jul-95	54	19			9.7	270	
18-May-95	118	14			8.7	300	
24-Mar-95	126	3			12.1	140	
16-Jan-95	94	1			12.6	4	1
18-Nov-94	73	0			12.4	31	
20-Sep-94	29	24.5			16	200	
12-Jul-94	37	22.5			11.8	59	
26-May-94	56	16.5			9.2		
17-May-94	70	13.5			10.4	47	
23-Mar-94	90	5			12.1	4	1
18-Jan-94	67	1			14	18	
23-Nov-93	80	1			12.4	36	
24-Sep-93	97	13			11.8	480	
21-Jul-93	142	20.5			13.7	380	
21-May-93	227	15			8.2	300	
19-Mar-93	128	7			10.5	24	1
13-Jan-93	19	0			11.8	3	1
18-Nov-92	51	4			12.9	47	
29-Sep-92	3.7	14			11.1	4800	1
30-Jul-92	3	29			6	1200	1
15-May-92	50	14.5			11	110	
18-Mar-92	64	6			11.4	53	
17-Jan-92	49	0			12.3	1	1
22-Nov-91	50	1			17.3	8	1
18-Sep-91	83	15			12.7	20	
9-Jul-91	58	18			8.4	84	1
13-May-91	168	10			12.8	48	
12-Mar-91	77	5			13.1	3	1
17-Jan-91	58	0			11.8	12	1
15-Nov-90	73	5			16.4	7	1
11-Sep-90	32	18			10.6	20	

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)	
			near Blackfoot (13068500)				
24-Jul-90	63	20			11.6	40	
15-May-90	116	10.5			10.8	31	
19-Mar-90	70	9			12.2	11	[1]
26-Jan-90	93	0.5			12	6	[1]
20-Nov-89	124	5			12.6	6	[1]
19-Sep-89	172	16			10.6	73	
30-Aug-89	37	15			9.3	98	
24-Aug-89	106	16					
17-Jul-89	174	21.5			7.6	65	
11-Jul-89	75	24.5					
19-Sep-88	7	12					
8-Aug-88	7.1	24					
27-Jun-88	124	24					
7-Jun-88	29	19					
16-May-88	56	19					
4-Apr-88	95	8					
23-Feb-88	85	0					
13-Jan-88	57	0					
30-Nov-87	92	0					
19-Oct-87	85	8					
8-Sep-87	134	17					
28-Jul-87	58	21					
15-Jun-87	218	19					
4-May-87	177	15					
23-Mar-87	216	7					
17-Feb-87	109	3					
29-Dec-86	152	0					
17-Nov-86	235	3					
7-Oct-86	164	14					
25-Aug-86	175	21					
14-Jul-86	221	20					
2-Jun-86	328	24					
12-May-86	683	10					
15-Apr-86	323	8					
7-Mar-86	359	7					
27-Jan-86	109	0					
12-Dec-85	111	0					
29-Oct-85	249	9					
19-Sep-85	234	14					
12-Aug-85	158	19					
9-Jul-85	68	22					

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Blackfoot (13068500)				
28-May-85	215	14				
8-Apr-85	387	12				
8-Jan-85	334	0.5				
3-Dec-84	215	-1				
22-Oct-84	379	4.5				
12-Sep-84	178	13.5				
26-Jul-84	332	23				
18-Jun-84	549	17				
17-May-84	698	10				
7-May-84	471	8				
22-Mar-84	259	5				
30-Jan-84	180	0				
4-Jan-84	314	0.5				
10-Nov-83	354	5				
30-Sep-83	295	14				
18-Aug-83	255	21				
11-Jul-83	304	12				
19-May-83	627	10				
19-May-83	-	10				
13-Apr-83	209	5.5				
2-Mar-83	247	6				
17-Jan-83	146	2				
14-Dec-82	339	0				
27-Oct-82	313	7.5				
14-Sep-82	241	10.5				
6-Aug-82	179	21.5				
24-Jun-82	94	23				
19-May-82	--	10			9.4	
12-May-82	183	12.5				
24-Mar-82	87	8.5				
16-Feb-82	119	0.5				
29-Dec-81	99	0				
13-Nov-81	114	8.5				
27-Oct-81	313	7.5				
19-Oct-81	249	9.5				
20-Aug-81	68	21				
16-Jul-81	59	23				
4-Jun-81	154	17				
28-Apr-81	157	12				
27-Feb-81	122	6.5				
12-Jan-81	94	2				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Blackfoot (13068500)				
18-Nov-80	125	1.5				
8-Oct-80	128	15.5				
2-Oct-80	113	14				
28-Aug-80	115	17				
1-May-80	186	14.5				
4-Mar-80	105	7				
15-Jan-80	198	2				
21-Nov-79	101	0.5				
9-Oct-79	130	14				
20-Sep-79	265	10.5				
12-Sep-79	64	16				
30-Aug-79	92	21				
13-Jun-79	72	21.5				
27-Nov-78	104	1				
20-Sep-78	265	10.5				
2-Aug-78	178	21.5				
29-Jun-78	156	20				
9-Jun-78	37	20				
4-May-78	50	10.5				
4-Apr-78	160	7.5				
24-Feb-78	44	6				
12-Jan-78	69	3.5				
29-Nov-77	77	4.5				
18-Oct-77	142	10.5				
31-Aug-77	70	16.5				
15-Jul-77	7.8	23.5				
3-May-77	0.5	16				
26-Apr-77	93	11				
16-Mar-77	72	2				
2-Feb-77	110	0				
28-Dec-76	140	0				
10-Nov-76	323	5				
8-Nov-76	326	7				
29-Sep-76	165	12				
17-Aug-76	253	17				
2-Jul-76	126	20				
13-Apr-76	323	8				
5-Jan-76	231	0				
21-Nov-75	273	0				
31-Aug-75	170	15.5				
15-Jul-75	174	23				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Blackfoot (13068500)				
5-Jun-75	380	15				
24-Apr-75	200	7.5				
6-Mar-75	189	2.5				
13-Jan-75	95	0				
18-Nov-74	252	3.5				
4-Oct-74	123	10.5				
6-Sep-74	223	21				
26-Jun-74	122	20				
3-Jun-74	235	9.5				
25-Mar-74	167	4				
21-Nov-73	185	2				
19-Oct-73	242	11				
14-Sep-73	202	15.5				
20-Aug-73	102	19				
16-Jul-73	147	23				
24-May-73	130	16				
7-May-73	659	11				
3-May-73	353	11.5				
30-Mar-73	131	2.5				
26-Feb-73	130	0.5				
31-Aug-72	200	18				
29-Jun-72	263	18				
30-May-72	240	17				
27-Apr-72	412	9.5				
23-Jun-71	311	21.5				
12-Jan-71	95	0				
20-Aug-70	146	21				
11-May-70	399	9				
13-Jan-70	42	0				
18-Dec-69	75	2				
3-Apr-69	358	8				
17-Oct-68	400	8				
4-Apr-68	130	9				
		near Shelley (13066000)				
1-Feb-89	53	0.5				
6-Mar-89	60	1.5				
17-Apr-89	265	5.5				
6-Jun-89	506	14.5				
11-Jul-89	890	17.5				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Shelley (13066000)				
29-Aug-89	289	13				
24-Oct-88	62	8				
13-Dec-88	67	1.5				
11-Jan-88	105	0				
22-Feb-88	82	1				
4-Apr-88	194	5				
16-May-88	464	13				
27-Jun-88	871	18				
13-Jul-88	743	20				
8-Aug-88	524	16				
19-Sep-88	426	8				
20-Oct-87	91	7				
30-Nov-87	36	0				
2-Feb-87	146	2				
13-Mar-87	417	5				
20-Apr-87	189	9.5				
2-Jun-87	353	14				
22-Jul-87	488	16				
3-Oct-86	398	10				
19-Nov-86	353	3.5				
23-Jan-86	254	1				
6-Mar-86	833	4				
9-Apr-86	1040	7				
12-May-86	1800	9.5				
29-May-86	1820	16.5				
9-Jul-86	1140	16				
20-Aug-86	607	20				
31-Oct-85	153	7				
12-Dec-85	99	0.5				
11-Jan-85	518	0				
8-Mar-85	503	1				
11-Apr-85	1030	10				
23-May-85	369	18				
1-Jul-85	797	18				
12-Aug-85	411	15				
19-Sep-85	230	12				
25-Oct-84	450	6				
5-Dec-84	110	-1				
3-Jan-84	931	0				
19-Mar-84	404	4.5				
1-May-84	649	8				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) nstantaneou	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Shelley (13066000)				
15-May-84	1970	9				
12-Jun-84	1810	12				
23-Jul-84	1390	21				
12-Sep-84	445	17				
14-Nov-83	463	4				
20-Jan-83	203	1				
1-Mar-83	200	5.5				
11-Apr-83	303	7				
17-May-83	1770	9				
6-Jul-83	549	19				
17-Aug-83	717	20				
26-Sep-83	527	14.5				
1-Nov-82	314	4.5				
6-Dec-82	556	3				
12-Jan-82	94	0.5				
17-Feb-82	122	1				
26-Mar-82	109	6				
14-May-82	1180	8				
25-Jun-82	861	17.5				
6-Aug-82	850	18				
17-Sep-82	350	12.5				
19-Oct-81	75	6				
12-Nov-81	70	7.5				
6-Mar-80	80	5				
29-Apr-80	208	13.5				
19-Jun-80	484	21				
24-Jun-80	826	15.5				
28-Nov-79	66	0				
11-Jun-79	722	15				
28-Aug-79	293	16.5				
6-Oct-77	361	11.7				
3-Feb-77	113	0				
17-Mar-77	76	1				
25-Apr-77	68	9.5				
8-Jun-77	926	18				
18-Jul-77	829	19				
30-Aug-77	795	15				
24-Feb-76	217	1				
30-Jun-76	1160	18.5				
16-Aug-76	577	15				
1-Oct-76	346	11				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Shelley (13066000)				
19-Nov-76	312	3.5				
29-Dec-76	151	0				
16-Oct-75	204	9.5				
19-Nov-75	217	0				
		near Henry (13065500)				
22-Sep-87	52	15.5				
18-Aug-87	78	14				
8-Sep-82	118	14.5				
27-Jul-82	223	20				
15-Jun-82	539	13				
5-May-82	1390	7.5				
23-Mar-82	99	0				
4-Nov-81	57	4.5				
22-Sep-81	44	10				
20-Aug-81	54	18				
8-Jul-81	100	15.5				
19-May-81	256	8				
15-Apr-81	191	7				
24-Feb-81	68	0				
8-Jan-81	57	0.5				
5-Nov-80	87	5				
11-Sep-80	95	12				
16-Jul-80	163	6.5				
14-May-80	630	12				
6-May-80	546	11.5				
25-Mar-80	68	4				
6-Feb-80	42	0.5				
23-Oct-79	58	5.5				
21-Aug-79	64	16				
9-Aug-79	60	19.8				
8-Aug-79	60	20				
24-Jul-79	78	20				
5-Jun-79	191	16				
23-May-79	300	12.5				
10-May-79	495	6.5				
19-Apr-79	199	4				
6-Mar-79	68	1				
19-Dec-78	37	0.5				
8-Nov-78	79	2				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Henry (13065500)				
26-Sep-78	94	10.5				
12-Jul-78	159	17				
9-Nov-77	32	1				
28-Sep-77	35	12				
17-Aug-77	23	19				
6-Jul-77	50	17				
25-May-77	108	8				
20-Apr-77	103	5.5				
8-Mar-77	54	0				
18-Jan-77	62	0				
1-Dec-76	86	0				
20-Oct-76	97	2				
31-Aug-76	118	14.5				
15-Jul-76	157	17				
2-Jun-76	560	15				
21-Apr-76	272	5				
9-Dec-75	112	0.5				
29-Oct-75	128	0				
18-Sep-75	112	8.5				
6-Aug-75	148	15.5				
23-Jun-75	536	14				
14-May-75	472	4.5				
25-Mar-75	70	0.5				
18-Mar-75	68	0				
5-Feb-75	56	0				
18-Dec-74	73	0				
12-Dec-74	79	0.5				
6-Nov-74	93	2.5				
24-Sep-74	89	10				
13-Aug-74	120	15				
10-Jul-74	152	17.5				
4-Jun-74	437	12.5				
1-May-74	801	7.5				
20-Mar-74	120	0				
13-Feb-74	69	0				
9-Jan-74	45	0				
4-Dec-73	90	0				
30-Oct-73	74	2				
25-Sep-73	123	7				
28-Aug-73	64	14.5				
30-Jul-73	86	21				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) Instantaneous	Mean	Maximum	Dissolved xygen (mg/	Fecal coliform (colonies/100 ml)
		near Henry (13065500)				
27-Jun-73	94	17				
22-May-73	478	9.5				
24-Apr-73	228	4.5				
27-Mar-73	82	3				
1-Nov-72	99	0				
20-Jun-72	410	12.5				
11-Apr-72	674	3.5				
13-Oct-71	118	8.5				
7-Jul-71	265	14.5				
5-May-71	1920	6.5				
21-Oct-70	79	5				
17-Aug-70	75	19.5				
18-May-70	1430	15				
7-Jul-68	107	17				
		Wolverine Creek (13065940)				
20-Aug-86	8	21				
9-Jul-86	7.9	19				
27-May-86	49	19				
9-Apr-86	28	10				
6-Mar-86	12	12				
23-Jan-86	9	7				
12-Dec-85	8.4	6				
31-Oct-85	9.9	10.5				
19-Sep-85	8.6	13				
12-Aug-85	5.7	12				
1-Jul-85	5.4	23				
23-May-85	28	15				
11-Apr-85	26	14				
8-Mar-85	10	1				
11-Jan-85	12	1				
5-Dec-84	9.9	7				
25-Oct-84	14	9				
12-Sep-84	13	16				
23-Jul-84	26	19				
18-Jun-84	56	15				
15-May-84	183	10				
7-May-84	55	8				
19-Mar-84	12	11				
17-Feb-84	11	9				

Table F-1. Continued.

Date	Flow (cfs)	Temperature (°C) nstantaneou	Mean	Maximum	Dissolved ygen (mg/	Fecal coliform (colonies/100 ml)
		Wolverine Creek (13065940)				
3-Jan-84	9.9	9.5				
26-Sep-83	9.3	16.5				
17-Aug-83	9.4	17				
2-Jul-83	19	17				
17-May-83	46	14				
15-Apr-83	25	12				
2-Mar-83	16	7				
17-Jan-83	8.4	9				
6-Dec-82	11	8				
27-Oct-82	12	5				
17-Sep-82	6.1	11.5				
6-Aug-82	9.4	14				
25-Jun-82	16	17.5				
14-May-82	41	10				
25-Mar-82	12	10				
17-Feb-82	11	8				
8-Jan-82	7.8	4.5				
12-Nov-81	8	12				
19-Oct-81	7.3	10				
19-Jun-80	22	19.5				
29-Apr-80	20	15				
6-Mar-80	7.4	13				
14-Jan-80	7.6	10				
7-Aug-79	0.7	18				
28-Sep-76	8.7	15				
20-Sep-73	8.6	14.5				
		Angus Creek (13062700)				
14-May-80	28	13				
23-Oct-79	1.1	8				
24-Jul-79	0.59	20				
23-May-79	11	13				
19-Oct-76	1.2	1				
31-Aug-76	0.75	16				
11-May-76	91	1				
18-Sep-75	1	11				
11-Dec-74	1.5	0				
24-Sep-74	0.56	7				
28-Aug-73	0.52	1.7				

[1]counts outside ideal colony range

Appendix G

Dry Valley Creek information

Table G-1. Flow, total suspended solids (TSS), and turbidity data in Dry Valley Creek from 1977 to 1999. All data from sites DV-7, DV-6, DV-2, and DV-1 from Bureau of Land Management et al. (2000). Data from sites DV-3, DV-4, and DV-4a from Rich (1999).

	Above mining activites (Site DV-7)			Upper end of mining activites (Site DV-6)			Above Maybe Canyon (Site DV-4)			At confluence with Maybe Canyon (Site DV-4a)			Below Maybe Canyon (Site DV-3)			Lower Dry Valley Creek (Site DV-2)			Near mouth (Site DV-1)		
Sample Date	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)	Flow (cfs)	TSS (mg/L)	Turbidity (ntu)
5/1/77		43.0															7				
9/1/77		114.0															11				
5/1/78		26.0															15				
10/1/78		16.0															7				
5/1/79		31.0															7				
8/1/79		11.0															1				
5/8/89	0.2	3.3	4.3	3.9	0.4	0.1 <										4.1	0.8	1.3	1.4	0.4	2.2
6/13/89	0.1	2.8	2.2		0	2.3										1.5	2	1.9	2.6	0	1.6
7/12/89	0.1	< 43.9	5.8		57.1	9.2										0.9	0	0.2	2	0	1.4
8/15/89	0.1	< 2.8	8.6		31.7	12.5										0.1	< 2.1	7.2	2.6	3.6	6.8
9/20/89	0.1	< 0.0	1.8													0.1	< 0.8	1	2	0.4	0.5
10/25/89	0.1	< 1.9	3.6													0.1	< 7.5	0.5	2.2	0	0.5
11/16/89	0.1	< 9.7	2.8														2.9	3.5		2.9	2
5/4/90	0.3	3.1	2.0	1.25	0	2										2.8	4.6	5	7	2.9	3
6/6/90	0.1	3.4	1.9		0	1										0.5	7.1	4.5	3.3	0	1
7/19/90		6.0	1.5														12	1.2		9	1.3
8/17/90																	5	1		5	1
10/2/90																	3.2	2.5		4.1	1.9
6/10/91	0.25	2.0	2.6	0.64	1	2.5										5.5	4	3.4	12.7	2	3.2
7/30/91																	3.5	6.2	1.1	1.8	5
8/30/91																	10.7	6.4		0	3.2
9/26/91																	23.4	8.3		12.6	2.4
6/8/92	0.37	1.0	2.7	0.48	1	2.6										3.8	4	3.4	11.3	3	3.3
7/24/92																	3.3	6.4	0.9	1.6	5.3
8/14/92																					
9/28/92																					
6/30/93	0.61	0.7	0.6	1.26	1.4	0.5										2.54	1.5	0.7	2.92	0.7	0.4
7/29/93	1.65	38.2	0.5	0.58	14.5	0.6										2.11	2.1	0.5	5.06	5.1	0.7
8/31/93	0.88	7.0	0.8		14	0.3											5	0.4	1.7	1	0.4
9/27/93	0.62	7.4	0.7		22.4	6.6											5	0.5	1.76	25.1	0.7
10/20/93	0.83	9.6	1.4		4.5	1											2.9	1.2	2.8	28.7	7.1
5/23/94	0.74	7.2	1.0		16.7	0.1 <											8.7	1 <	4.67	20.5	2
6/21/94	0.53	8.2	1.9		10.6	1.8											21.6	4	2.94	30.1	5.5
7/13/94	1.08	18.2	5.0		72.5	9											475.4	93		16	5.0 <
8/23/94	1.16	10.0	5.0 <																1.09	33.2	6
9/13/94																			1.76	11.4	5.0 <
10/26/94																			1.26		
5/23/95	2.4	4.0	5.0 <	7.5	4	5.0 <										25.5	4	5.0 <	21.4	4	5.0 <
6/14/95	2.3	10.0	5.0 <	7.6	9	5.0 <										18.1	9	5.0 <	7.4	9	5.0 <
7/11/95	2.1	32.0	4.0		7	5.0 <											32	4.1	3.8	9	1.5
8/29/95	1.7	69.0	7.8		25	3.4											22	0.8	2.4	30	2.2
9/26/95	1.2	36.1	5.5		11.3	0.8											6.6	0.5 <	1.4	8.3	0.5 <
10/16/95	1.2	14.4	3.2		5	0.5 <											1 <	0.6	3	7	1.4
11/16/95	1.2	26.3	4.2		7.3	1.2											1.1	0.8	2.4	6.4	1.1
5/22/96	2.7	48.4	23.0	12.1	1 <	1										24.6	3.4	1	41.8	10.5	4
6/24/96	1.6	37.7	1.0	3.1	1.4	1										6.2	4.2	2	7.1	9.8	4
7/16/96	1.4	83.5	23.0		1 <	1											3.6	1	3.7	10.5	4
8/15/96	1	186.0	39.0		13	0											15	0	2.7	15	1
9/24/96	0.8	168.0	41.0		4	2											9	1	4.3	8	2
10/22/96	0.6	28.9	5.5		3.1	1.4										1.5	12.4	3.9	3.6	14.3	2.8
11/20/96	0.8	32.2	6.8		0.7	1.5										2.4	0.7	1	3.6	4.3	2
5/23/97	8.1	30.4	1.0	8.7	1.1	0							15.7	11.3	0	29.9			27.9	11.8	1
6/25/97	4.3	33.5	1.0	4.8	0.7	1							8.5	0.7	1	16.9			11.3	14.5	2
7/23/97	1.6	88.4	3.0	4.8	11.8	2							3.6	20.7	1	8.1			7.4	66.2	2
8/25/97	1	4.8	55.0	0.9	0.7	2							3	0.7	1	3.3			6.4	1.4	3
9/24/97	0.7	57.6	23.0	1.7	5.7	2							0.7	8.2	2	3.6			6.3	5.4	2
10/21/97	0.3	34.3	9.0	0.7	5.1	2							0.7	6	1	3.2			6.3	28.7	4
11/18/97		29.0	6.0		2	1							0.4	30	1	2.4			1.3	4	0
5/27/98	2.1	56.0	7.4	3.7	11	0.9	3	4	0.6	3.9	6	0.5	4.7	4	0.5				10.2	10	0.4
6/22/98	1.9	69.7	8.8	1.6	14.2	0.9	2	0	0.4	3.2	7.8	0.6	3.85	10	0.7				6.7	10	0.3
7/21/98							0.6	2	5	1.2	3	6	1.9	5	5						
7/22/98	3.3	199.0	57.0	0.73	8	2													2.2	9	10
8/17/98							0.332	0	1	1.02	1	1.2	0.3	1	1.8						
8/18/98	2.3	110.0	24.0	0.72	4	3.5													1.9	4	1.5
9/29/98	0.62	52.0	15.0	0.34	55	20	0.08	7	2.4	0.4	8	2.7	0.67	8	2.5				3.2	4	2
10/19/98	1.7	23.0	7.0	0.3	0	1	0.84	11	2.7	0.43	2	2	0.35	6	2.4				2.2	10	3.3
6/8/99	1.9	100.0	16.0	3.8	23	4.2													15.2	0	1.1
8/30/99	1.14	64.0	35.0	1.09	5.0 <	1.8													4.5	5.0 <	3.5
9/24/99	0.24	84.0	30.0	0.07	5.0 <	1.6													1.6	5.0 <	1.1

<below detection limit

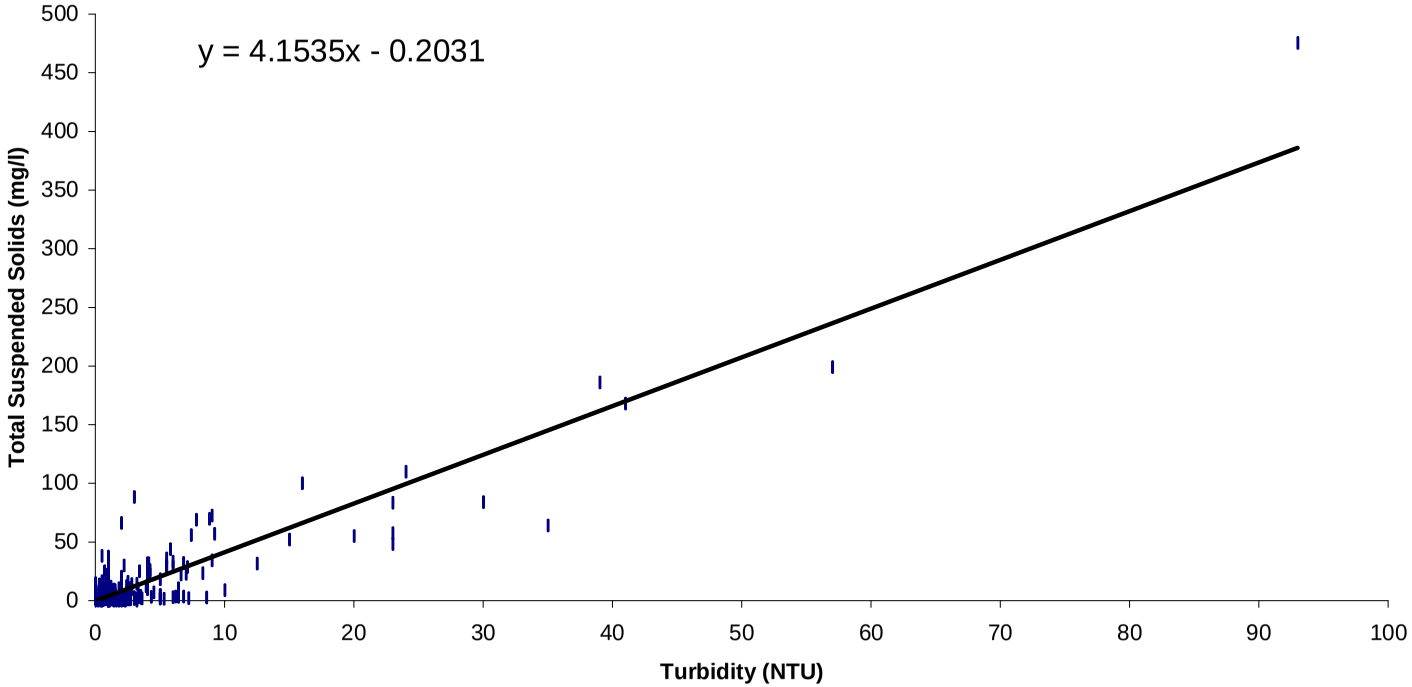

Figure G-1. Relationship between turbidity and total suspended solids data collected simultaneously in Dry Valley Creek from all sites, 1989-1999. (Sample collected at DV-7 on 08/25/1997 questioned and was eliminated from dataset; values below minimum detection limit assigned a value of 1/2 detection limit; N = 219, $R^2 = 0.843$, $p < 0.001$.)

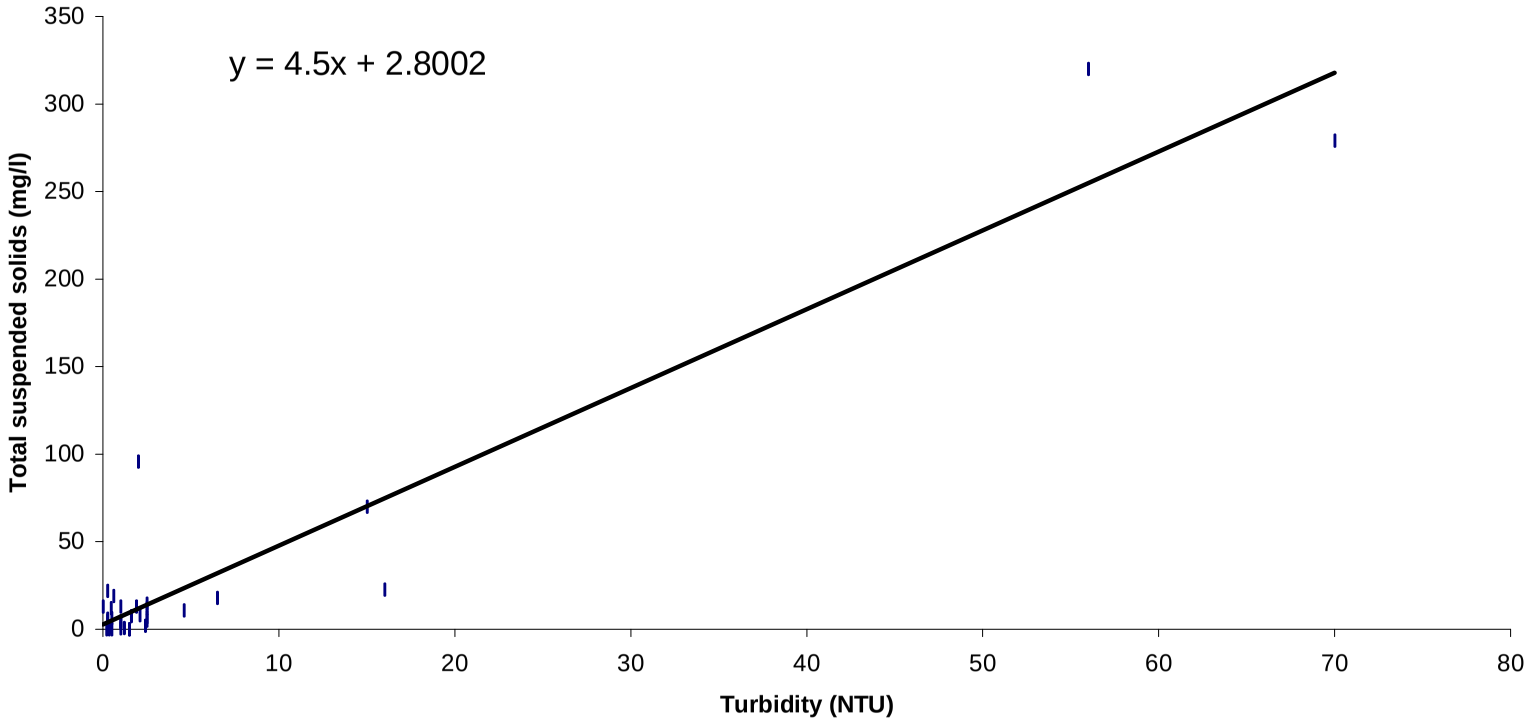

Figure G-2. Relationship between turbidity and total suspended solids data collected simultaneously in Maybe Canyon Creek near the mouth, 1989-1998. (Values below minimum detection limit were assigned a value of 1/2 detection limit; N = 33, $R^2 = 0.897$, $p < 0.001$.)

Appendix H

Angus Creek flow information

Table H-1. Peak flows on Angus Creek, 1963-1980 (USGS, internet communication).

Year	Peak flow	Date of peak flow
1963	113	9-May
1964	255	14-May
1965	174	30-Apr
1966	100	10-May
1967	188	17-May
1968	375	3-May
1969	183	24-Apr
1970	342	28-May
1971	200	5-May
1972	NR[1]	--
1973	NR	--
1974	440	26-Apr
1975	960	19-May
1976	1060	11-May
1977	102	11-Apr
1978	270	26-Apr
1979	470	28-Apr
1980	530	27-Apr

[1]NR=not reported

Appendix I

USGS nutrient information

Table I-1. Nutrient information at Blackfoot River USGS surface-water stations near Blackfoot (13068500) and Henry (13065500) since 1967 (from USGS Water Resources Data reports).

Year	Date	Discharge (cfs)	Nitrate (mg N/l)	Total nitrate (mg N/l)	Nitrate (mg/l NO3)	Total nitrite (mg N/l)	Dissolved nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Total nitrate + nitrite (mg N/l)	Dissolved nitrate + nitrite (mg N/l)	Total ammonia (mg N/l)	Dissolved ammonia (mg N/l)	Total ammonia + organic nitrogen (mg N/l)	Dissolved ammonia + organic nitrogen (mg N/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphorus (mg P/l)	Dissolved ortho phosphorus (mg P/l)	Total phosphate (mg/l PO4)	Phosphate (mg/l PO4)
										near Blackfoot										
1967	4-Oct	225			1															
1968	4-Apr	130			1															0.26
1968	17-Oct	400			0.9															0.22
1969	3-Apr	358			2.8															0.58
1969	18-Dec	75			1.9															0
1970	13-Jan	42			0.6															0.01
1970	11-May	399			4.2															0.96
1970	20-Aug	146			1.3															0.27
1971	12-Jan	95								1.1					0.19					
1971	23-Jun	311								0.17					0.05					
1972	27-Apr	412								1.5					0.27					
1972	30-May	240								0.2					0.26					
1972	29-Jun	263								0.04					0.39					
1972	31-Aug	200								0.08					0.12					
1973	24-May	130								0.12					0.2					
1973	19-Oct	242								0.31					0.17					
1974	3-Jun	235								16										
1974	4-Oct	123								0.14					0.05					
1975	31-Aug	170								0.03					0.06					
1976	2-Jul	126								0.01					0.04					
1976	10-Nov	323								0.04					0.04					
1977	15-Jul	7.8								0.05					0.04					
1977	18-Oct	142								0.17					0.15					
1978	9-Jun	37								0.03					0.02					
1978	2-Aug	178								0.02					0.05					
1978	20-Sep	265								0.11					0.01					
1979	13-Jun	72								0.7					0.04					
1979	12-Sep	64								0					0.03					
1979	9-Oct	130								0					0.03					
1979	21-Nov	101								0.36					0.03					
1980	1-May	186								0.23					0.36					
1980	8-Oct	128								0.31					0.2					
1981	16-Jul	59								0.15					0.16					
1982	19-May	--								0.1					0.22				0.67	
1989	17-Jul	174							0.023		0.018		0.41		0.05			0.001 <		
1989	30-Aug	37							0.009		0.037		0.3		0.05 <			0.001 <		
1989	19-Sep	172							0.017		0.05		0.29		0.05 <			0.001 <		
1989	20-Nov	124							0.1	0.14	0.01		0.2		0.05			0.01 <		
1990	26-Jan	93							0.5	0.48	0.01 <		0.2		0.04			0.01		
1990	19-Mar	70							0.2	0.2	0.02		0.6		0.06			0.01		
1990	15-May	116							0.1 <	0.1 <	0.01		0.2 <		0.04			0.01 <		
1990	24-Jul	63							0.1 <	0.1 <	0.1 <		0.6		0.04			0.01 <		
1990	11-Sep	32							0.1 <	0.1 <	0.01		0.2		0.03			0.01 <		
1990	15-Nov	73		0.09		0.01	0.01 <		0.1	0.1	0.05	0.03	0.4		0.02		0.01 <	0.01 <		

Table I-1. Continued.

Year	Date	Discharge (cfs)	Nitrate (mg N/l)	Total nitrate (mg N/l)	Nitrate (mg/l NO3)	Total nitrite (mg N/l)	Dissolved nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Total nitrate + nitrite (mg N/l)	Dissolved nitrate + nitrite (mg N/l)	Total ammonia (mg N/l)	Dissolved ammonia (mg N/l)	Total ammonia + organic nitrogen (mg N/l)	Dissolved ammonia + organic nitrogen (mg N/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphorus (mg P/l)	Dissolved ortho phosphorus (mg P/l)	Total phosphate (mg/l PO4)	Phosphate (mg/l PO4)
1991	17-Jan	58				0.01 <	0.01		0.7	0.7	0.05	0.07	0.3		0.02		0.01	0.02		
1991	12-Mar	77				0.01 <	0.01 <		0.29	0.28	0.06	0.02	0.5		0.08		0.02	0.02		
1991	13-May	168		0.12		0.02	0.01 <		0.14	0.15	0.02	0.06	0.6		0.1		0.01 <	0.01 <		
1991	9-Jul	58				0.01 <	0.01 <		0.05 <	0.05 <	0.02	0.03	0.6		0.03		0.01 <	0.01 <		
1991	18-Sep	83				0.01 <	0.01 <		0.05 <	0.05 <	0.02	0.02	0.6		0.03		0.01 <	0.01 <		
1991	22-Nov	50					0.02			0.34	0.01 <	0.02	0.2 <		0.02			0.01 <		
1992	17-Jan	49					0.01 <			0.61	0.03	0.04	0.2 <		0.01 <			0.01 <		
1992	18-Mar	64					0.01 <			0.11	0.02	0.01	0.2		0.03			0.01 <		
1992	15-May	50					0.01 <			0.05 <	0.01	0.02	0.2 <		0.04			0.01 <		
1992	30-Jul	3					0.01 <			0.05 <	0.05	0.05	0.9		0.15			0.08		
1992	29-Sep	3.7					0.01 <			0.05 <	0.02	0.01	0.6		0.05			0.01		
1992	18-Nov	51					0.01 <			0.49		0.02	0.3		0.03			0.01		
1993	13-Jan	19					0.01			0.81		0.11	0.3		0.03			0.02		
1993	19-Mar	128					0.01 <			0.33		0.13	0.7		0.43			0.05		
1993	21-May	227					0.01 <			0.022		0.03	0.3		0.07			0.03		
1993	21-Jul	142					0.01 <			0.05 <		0.04	0.8		0.08			0.01 <		
1993	24-Sep	97					0.01 <			0.05 <		0.02	0.2		0.01			0.01 <		
1993	23-Nov	80					0.01 <			1		0.03	0.2		0.05			0.01 <		
1994	18-Jan	67					0.01			0.46		0.03	0.3		0.03			0.01 <		
1994	23-Mar	90					0.01 <			0.14		0.02	0.2		0.04			0.01		
1994	17-May	70					0.01 <			0.05 <		0.01 <	0.3		0.03			0.01 <		
1994	26-May	56					0.01 <			0.05 <		0.02	0.4	0.2 <	0.04	0.01 <		0.01 <		
1994	12-Jul	37					0.01 <			0.05 <		0.03	0.5		0.04			0.01 <		
1994	20-Sep	29					0.01 <			0.06		0.01 <	0.7		0.01			0.01 <		
1994	18-Nov	73					0.01 <			0.46		0.02	0.6		0.16			0.01 <		
1995	16-Jan	94					0.01 <			0.48		0.03	0.3		0.06			0.01		
1995	24-Mar	126					0.01			0.28		0.02	0.3		0.01 <			0.01		
1995	18-May	118					0.01 <			0.05 <		0.015 <	0.4		0.08			0.01 <		
1995	14-Jul	54					0.01 <			0.05 <		0.015 <	0.3		0.01			0.01 <		
1995	19-Sep	45					0.01 <			0.05 <		0.015 <	0.2 <		0.01			0.01 <		
1996	25-Apr	221					0.01 <			0.21		0.015 <	0.5		0.12			0.01		
1996	23-May	309					0.02			0.21		0.04	0.3		0.05			0.02		
1996	20-Jun	159					0.01 <			0.06		0.03	0.2		0.03			0.02		
1996	18-Jul	137					0.01 <			0.06		0.03	0.3		0.01 <			0.02		
1996	22-Aug	103					0.01 <			0.05 <		0.015 <	0.3		0.01 <			0.01 <		
1996	19-Sep	198					0.01			0.12		0.04	0.3		0.03			0.01 <		
1997	24-Apr	391					0.01 <			0.336		0.047	0.86		0.238			0.021		
1997	21-May	260					0.01 <			0.13		0.015 <	0.65		0.218			0.027		
1997	9-Jun	282					0.01 <			0.083		0.015 <	0.38		0.062			0.019		
1997	28-Jul	241					0.01 <			0.05 <		0.015 <	0.54		0.057			0.01 <		
1997	16-Sep	250					0.01 <			0.123		0.015 <	0.39		0.055			0.018		
1997	8-Oct	208					0.01 <			0.097		0.016	0.29		0.01 <			0.01 <		

Table I-1. Continued.

Year	Date	Discharge (cfs)	Nitrate (mg N/l)	Total nitrate (mg N/l)	Nitrate (mg/l NO3)	Total nitrite (mg N/l)	Dissolved nitrite (mg N/l)	Nitrate + nitrite (mg N/l)	Total nitrate + nitrite (mg N/l)	Dissolved nitrate + nitrite (mg N/l)	Total ammonia (mg N/l)	Dissolved ammonia (mg N/l)	Total ammonia + organic nitrogen (mg N/l)	Dissolved ammonia + organic nitrogen (mg N/l)	Total phosphorus (mg P/l)	Dissolved phosphorus (mg P/l)	Total ortho phosphorus (mg P/l)	Dissolved ortho phosphorus (mg P/l)	Total phosphate (mg/l PO4)	Phosphate (mg/l PO4)
											near Henry									
1968	7-Jul	107	0.47		2.1															
1970	18-May	1430	0.18		0.8															0.58
1970	17-Aug	75	0.02		0.1															0
1970	21-Oct	79						0.1							0.03					
1971	5-May	1920						0.05							0.65		0.1			
1971	7-Jul	265						0.02							0.06		0.03			
1971	13-Oct	118								0.07					0.06			0.03		
1972	11-Apr	674								0.28					0.18					
1972	20-Jun	410								0.06					0.12					
1972	1-Nov	99								0.07					0.04					
1973	27-Jun	94								0.05					0.09					
1973	25-Sep	123								0.06					0.29					
1974	4-Jun	437								0.89										
1974	24-Sep	89								0.13					0.02					
1974	12-Dec	79								0.31				1.6		0.47				
1975	25-Mar	70								0.1		0.01		0.27				0.01		
1975	23-Jun	536								0.05					0.06					
1975	18-Sep	112								0.13					0.08					
1976	2-Jun	560								0.09					0.09					
1976	20-Oct	97								0.06					0.02					
1977	25-May	108								0.35					0.08					
1977	9-Nov	32								0					0.01					
1978	12-Jul	159								0.15					0.05					
1979	23-May	300								0.35					0.1					
1979	23-Oct	58								0.03					0.02					
1980	6-May	546								0.04					0.12					
1980	14-May	630								0.09					0.27					
1980	5-Nov	87								1.4					0.05					
1981	8-Jul	100								0.04					0.13					

<below detection limit