Table A1. Physical properties of synoptic samples collected near Creede, Colorado, August and September, 2000

[Distance, in meters; Discharge, in liters per second; specific conductance in microSiemens per centimeter at 25oC; pH, in standard units; temperature, in degrees Celcius];

Site identification	Source	Distance	Site description	Sample date	Sample time	Discharge	Specific conductance	pH	Temperature
			Lower Willow synoptic sites						
LW-T0	Stream	7,443	Upstream from injection site	08/28/00	15:00	582	137	7.46	16.5
LW-7586	Stream	7,586	At the end of the channel at RR bridge	08/28/00	12:10	582	143	7.31	12.5
W-D	Stream	7,716	Down from RV sewage disposal	08/28/00	12:20	582	142	7.39	13.0
W-E	Stream	7,830	T1- Up from braided reach	08/28/00	12:30	588	141	7.43	14.0
LW-8170	Inflow	8,170	Stream return flow--may have tailings seepage	08/28/00	12:40		139	7.50	25.0
LW-8220	Stream	8,220	Where braids come back together	08/28/00	12:50	599	145	6.84	15.0
LW-8340	Inflow	8,340	Seep with ulotrix	08/28/00	11:00		2,050	3.42	17.0
W-F	Inflow	8,450	Seep from tailings	08/28/00	11:05		2,770	2.95	16.5
W-G	Stream	8,725	Stream in middle braid 170 meters before split	08/28/00	13:05	304	144	7.46	17.0
W-G-East	Stream	8,725	East channel	08/28/00	13:15	263	149	7.40	17.0
W-G-West	Stream	8,725	West channel with little flow	08/28/00	11:18	31.7	176	7.17	18.0
LW-9075	Stream	9,075	T2--Right part of middle braid	08/28/00	13:30	250	143	7.49	18.5
LW-9335	Inflow	9,335	Seepage from sewage treatment plant	08/28/00	13:40	55.4	172	7.46	23.5
LW-9335	Inflow	9,335	Seepage from sewage treatment plant	08/28/00	13:40	55.4	172	7.46	23.5
LW-9482	Stream	9,482	Down from sewage treatment plant	08/28/00	13:55	305	146	7.45	20.5
LW-9482	Stream	9,482	Down from sewage treatment plant (replicate)	08/28/00	13:50	305	147	7.57	20.5
LW-9500	Stream	9,500	Upstream from Wasson return	08/28/00	11:25	40.3	148	7.28	18.0
LW-9520	Inflow	9,520	Wasson return	08/28/00	11:20	99.1	149	7.11	13.5
LW-9540	Stream	9,540	Down from Wasson return	08/28/00	11:30	148	149	7.10	15.0
LW-9782	Stream	9,782	Right part of middle braid	08/28/00	14:05	308	147	7.38	20.5
LW-10082	Stream	10,082	Another right part of the middle braid	08/28/00	14:15	322	149	6.74	21.0
LW-10090	Inflow	10,090	Flow along base of high berm--no flag	08/28/00	14:20		166	6.96	19.0
W-H	Stream	10,100	Wasson gate	08/28/00	11:10	265	150	7.21	13.0
W-I	Stream	10,324	Stream near mouth of braid	08/28/00	14:25	333	147	7.37	21.0
W-J	Stream	10,324	Stream near mouth of braid	08/28/00	14:35	163	147	7.42	20.5
RG-A	Stream	10,350	Rio Grande up from Willow Creek	08/28/00	16:20	7,074	80	8.13	19.0
RG-B	Stream	10,355	Rio Grande down from Willow Creek	08/28/00	10:40	7,570	82	7.45	14.0
			East Willow synoptic sites						
EW-T0	Stream	947	Upstream from injection	08/30/00	13:25	401	46	7.90	10.5
EW-1070	Stream	1,070	First site below injection for discharge only	08/30/00	12:00	401			

Table A1. Physical properties of synoptic samples collected near Creede, Colorado, August and September, 2000 - continued

[Distance, in meters; Discharge, in liters per second; specific conductance in microSiemens per centimeter at 25oC; pH, in standard units; temperature, in degrees Celcius];

Site identification	Source	Distance	Site description	Sample date	Sample time	Discharge	Specific conductance	pH	Temperature
TRN	Inflow	1,079	LB drainage through culvert (no flag?) (no labels made)	08/30/00	13:15	.10	47	7.78	5.5
TRS	Inflow	1,129	Spring discharging from hill	08/30/00	13:10	.10	53	7.57	9.0
EW-K	Stream	1,157	East Willow Upstream from Outlet Mine	08/30/00	13:05	401	49	7.91	10.0
EW-J	Stream	1,447	T1-East Willow downstream from Outlet Mine	08/30/00	12:55	408	49	7.90	10.0
EW-1807	Stream	1,807	Along road to check for ground-water inflow	08/30/00	12:40	410	49	7.92	9.5
EW-2175	Stream	2,175	In canyon to check for ground-water inflow	08/30/00	12:30	409	50	8.03	
EW-I	Stream	2,405	Upstream from Solomon and Ridge mines	08/30/00	12:20	413	50	7.95	9.5
PC	Inflow	2,695	Pipe on LB	08/30/00	12:10	4.44	67	7.18	9.0
EW-H	Stream	2,735	Upstream from Solomon wetland	08/30/00	12:00	418	50	7.91	9.5
SMA	Inflow	2,790	Solomon adit, no flag, gate should be open	08/30/00	11:55	.10	570	4.71	8.0
EW-2830	Inflow	2,811	Spring discharge from Solomon Tunnel	08/30/00	11:50	2.25	191	7.02	11.5
EW-2825	Inflow	2,825	Drainage from Solomon pools along road	08/30/00	11:40	2.25	528	5.68	15.5
EW-2995	Stream	2,995	T2--Stream downstream from Solomon ponds (SRS and replicate)	08/30/00	11:30	423	51	7.95	9.5
EW-G	Stream	3,135	Downstream from Solomon tailings	08/30/00	11:20	427	51	8.01	9.5
EW-3525	Stream	3,525	Upstream from sprong on RB at base of talus	08/30/00	11:05	433	52	7.79	9.5
EW-3533	Inflow	3,533	Spring from talus slope	08/30/00	11:00	6.23	75	7.33	8.5
EW-E	Stream	3,602	East Willow as valley gets constricted	08/30/00	10:50	440	53	7.90	9.5
EW-D	Stream	3,970	East Willow upstream from old diversions	08/30/00	10:40	445	57	7.93	9.5
SWI	Inflow	4,015	Discharge at concrete diversion structure	08/30/00	10:35	5.74	68	7.33	10.0
EW-4107	Stream	4,107	Upstream end of culvert	08/30/00	10:30	451	54	7.62	9.5
EW-4121	Inflow	4,121	Small spring downstream from culvert	08/30/00	10:25	7.39	64	7.33	10.0
EW-C	Stream	4,157	East Willow upstream from Mamoth adit	08/30/00	10:20	458	54	7.73	9.5
EW-C	Stream	4,157	East Willow upstream from Mamoth adit	08/30/00	10:20	458	54	7.73	9.5
MA	Inflow	4,183	Pipe upstream hill discharging Mamoth adit flow	08/30/00	10:15	17.3	65	7.66	14.5
EW-B	Stream	4,613	East Willow upstream from North Creede site	08/30/00	10:00	476	53	7.62	9.0
EW-A	Stream	4,968	T3--East Willow near mouth	08/30/00	9:50	479	53	7.67	9.0
WW-A	Inflow	5,056	West Willow near mouth	08/30/00	9:40	205	320	7.23	11.0

Table A1. Physical properties of synoptic samples collected near Creede, Colorado, August and September, 2000 - continued

[Distance, in meters; Discharge, in liters per second; specific conductance in microSiemens per centimeter at 25oC; pH, in standard units; temperature, in degrees Celcius];

Site identification	Source	Distance	Site description	Sample date	Sample time	Discharge	Specific conductance	pH	Temperature
W-A'	Stream	5,158	Willow Creek downstream from confluence	08/30/00	9:25	684	136	7.45	9.5
W-A'	Stream	5,158	Willow Creek downstream from confluence	08/30/00	9:30	684	136	7.45	9.5
EW-5292	Stream	5,292	Willow Creek in reaction zone	08/30/00	9:15	697	139	7.34	9.5
EW-5492	Stream	5,492	Willow Creek upstream from braids and dam	08/30/00	9:05	702	139	7.47	9.5
EW-5892	Stream	5,892	Willow Creek upstream from pond near Windy Gulch	08/30/00	8:55	705	139	6.79	9.5
EW-5944	Inflow	5,944	Drainage from RB pond near Windy Gulch	08/30/00	8:50	1.07	193	7.06	12.0
EW-6044	Stream	6,044	Willow Creek at gage	08/30/00	8:40	707	139	7.12	9.5
West Willow synoptic sites									
WW-430	Stream	430	T0--Above injection site	09/01/00	14:40	121	105	7.91	11.5
WW-634	Stream	634	T1--First site below from injection	09/01/00	14:30	121	111	8.02	11.5
WW-846	Stream	846	West Willow as gradient increases	09/01/00	14:20	121	111	8.11	12.0
WW-1096	Inflow	1,096	Drainage from gully	09/01/00	14:15	.10	58	6.75	10.0
WW-1296	Stream	1,296	Below rhyolite outcrop	09/01/00	14:05	121	111	8.09	12.0
WW-1350	Inflow	1,350	LB inflow	09/01/00	14:00	.10	95	6.99	7.0
WW-1729	Stream	1,729	To check mixiing (flag says +433 from last site)	09/01/00	13:40	122	110	8.08	11.5
WW-2054	Stream	2,054	Last site in morain deposits	09/01/00	13:30	124	111	7.97	9.5
WW-L	Stream	2,304	Stakeholder site Above Last Chance Mine	09/01/00	13:20	129	111	8.01	11.5
WW-2464	Stream	2,464	Above Last Chance talus pile	09/01/00	13:10	129	111	7.86	11.0
WW-2627	Stream	2,627	Above Amethyst Tunnel	09/01/00	13:05	129	111	7.93	11.0
WW-K	Stream	2,667	Below Amethyst Adit	09/01/00	13:00	130	111	7.95	11.0
WW-J	Stream	2,829	T2--Above Nelson Creek	09/01/00	12:40	132	112	7.99	11.0
WW-I	Stream	3,021	Below Nelson Creek (replicate and standard reference sample)	09/01/00	12:25	135	112	7.92	10.5
WW-I	Stream	3,021	Below Nelson Creek (replicate and standard reference sample)	09/01/00	12:30	135	112	7.97	10.5
WW-3186	Stream	3,186	West Willow above right bank spring at fault	09/01/00	12:20	139	112	7.94	11.0
WW-3221	Inflow	3,221	Spring from fault	09/01/00	12:05	4.20	101	6.92	6.5
WW-3299	Stream	3,299	West Willow at rhyolite outcrop	09/01/00	12:00	143	112	7.91	10.5
WW-3489	Stream	3,489	West Willow at log waterfall	09/01/00	11:55	145	110	7.87	10.5
WW-3520	Inflow	3,520	Spring near stream level on right bank	09/01/00	11:50	1.40	90	7.13	7.0

Table A1. Physical properties of synoptic samples collected near Creede, Colorado, August and September, 2000 - continued

[Distance, in meters; Discharge, in liters per second; specific conductance in microSiemens per centimeter at 25oC; pH, in standard units; temperature, in degrees Celcius];

Site identification	Source	Distance	Site description	Sample date	Sample time	Discharge	Specific conductance	pH	Temperature
WW-3600	Stream	3,600	West Willow at top of cascades	09/01/00	11:45	146	110	7.96	10.0
WW-3728	Stream	3,728	West Willow at culvert above Burro Bridge	09/01/00	11:40	147	110	7.94	10.0
WW-HH	Stream	3,858	West Willow at Burro Bridge	09/01/00	11:30	149	110	7.96	9.5
WW-4100	Inflow	3,885	Water coming off rock face	09/01/00	11:20	2.60	32	7.73	8.0
WW-4081	Stream	4,081	West Willow below Burro Bridge	09/01/00	11:10	151	110	7.94	9.5
WW-H	Stream	4,245	West Willow in cascades	09/01/00	11:00	155	109	7.88	9.5
WW-4401	Stream	4,401	100+ m above old buildings by Commodore Tunnel	09/01/00	10:55	157	109	7.93	9.5
WW-G	Stream	4,577	West Willow above Commodore #5 Tunnel	09/01/00	10:45	160	109	7.91	9.0
WW-4710	Stream	4,710	Above Nelson Tunnel	09/01/00	10:30	160	109	7.73	8.5
WW-NT	Inflow	4,730	Nelson Tunnel	09/01/00	10:25	21.5	1,521	4.45	17.5
WW-F	Stream	4,766	West Willow down from Nelson Tunnel (not WW-F)	09/01/00	10:20	182	328	7.26	9.5
WW-4866	Stream	4,866	West Willow below culvert 20m above WW-F	09/01/00	10:00	187	344	7.37	9.5
WW-4930	Inflow	4,930	KAWI spring on right bank with aluminum precipitation	09/01/00	9:55	4.40	646	5.46	9.0
WW-4980	Stream	4,980	Below Commodore mine dump	09/01/00	9:45	192	351	7.30	10.0
WW-D	Stream	5,063	West Willow below mine dump for reactions	09/01/00	9:40	193	349	7.74	9.5
WW-5189	Stream	5,189	West Willow at point of good mixing	09/01/00	9:35	194	349	7.77	9.5
WW-B	Stream	5,282	West Willow up from bridge at photo stop	09/01/00	9:30	194	350	7.75	9.5
WW-5383	Stream	5,383	West Willow above possible Amethyst Fault	09/01/00	9:20	195	349	7.72	9.5
WW-A	Stream	5,540	T3--West Willow above confluence (replicate)	09/01/00	9:00	198	350	7.64	9.0
WW-A	Stream	5,540	T3--West Willow above confluence (replicate)	09/01/00	9:05	198	348	7.59	9.0
WW-EW-A	Inflow	5,614	East Willow near mouth	09/01/00	8:55	510	53	8.01	6.5
WW-W-A	Stream	5,716	Main Willow down from confluence	09/01/00	8:50	708	145	7.82	7.5
EW-5892	Stream	6,450	Willow Creek above pond near Windy Gulch	09/01/00	8:40	708	147	7.46	7.5
EW-6044	Stream	6,602	Main Willow down from Windy Gulch at gage	09/01/00	8:30	708	146	7.59	7.5