

Table 4. Summary of measured constituents and properties for Slate River near Crested Butte, station 09111500

[--, no data or not applicable; L, low; M, medium; H, high; LRL, Lab Reporting Level; \*, value is censored, see Definition of Terms for censored value replacement rules; NC, percentiles and medians not calculated or Level of Concern not computed; \*\*, Geometric mean; see Definition of Terms for explanation of standards, exceedances, and concern levels for dissolved oxygen, *Escherichia coli*, pH, and water temperature]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Instantaneous discharge, in cubic feet per second	1994-2017	196	0	4.1	33.7	1,210	06/05/97	15.3	404	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2018-2019	7	0	7.1	18.9	389	05/14/18	8.2	318	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	1995-2017	141	0	6.2	9.0	10.7	01/29/15	7.9	10.0	6.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2018-2019	7	0	8.3	9.5	9.9	08/14/18	8.3	9.9	6.0	0	--	--	--	L
pH, in standard units	1995-2017	141	0	7.0	7.6	8.9	02/11/13	7.4	8.0	6.5-9.0	0	--	--	--	L
pH, in standard units	2018-2019	7	0	7.4	7.8	9.3	08/14/18	7.4	9.1	6.5-9.0	1	--	--	--	H
Specific conductance, in microsiemens per centimeter	1994-2017	195	0	60.0	160	268	03/15/94	85.0	206	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2018-2019	7	0	86.0	201	239	01/18/18	101	239	--	--	.	--	--	--
Temperature, degrees Celsius	1994-2017	195	0	-0.1	5.3	20.5	07/18/02	0.2	14.2	--	--	--	--	--	--
Temperature, degrees Celsius	2018-2019	7	0	0.2	7.1	20.2	07/16/18	0.3	20.0	--	--	--	--	--	--
Temperature, degrees Celsius June 1 - Oct 15	1994-2017	82	0	3.1	11.8	20.5	07/18/02	7.0	16.1	21.7	0	--	--	--	L
Temperature, degrees Celsius June 1 - Oct 15	2018	2	0	19.0	NC	20.2	07/16/18	NC	NC	21.7	0	--	--	--	NC
Temperature, degrees Celsius Oct 16 - May 31	1994-2017	113	0	-0.1	1.0	10.8	05/27/98	0.0	6.6	13.0	0	--	--	--	L
Temperature, degrees Celsius Oct 16 - May 31	2018-2019	5	0	0.2	NC	9.5	05/14/18	NC	NC	13.0	0	--	--	--	NC
Turbidity, in nephelometric turbidity ratio-units	2001-2017	68	24	0 *	2.3	51.6	05/02/01	0 *	8.7	--	--	--	--	2.0	--
Turbidity, in nephelometric turbidity ratio-units	2018-2019	5	0	2.1	NC	6.5	05/14/18	NC	NC	--	--	--	--	2.0	--
Residue, in milligrams per liter	1995-1997	7	0	43.0	92.0	122	03/25/95	44.6	120	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	1995-2017	31	0	38.1	93.1	132	03/10/14	46.2	118	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	2018-2019	5	0	49.9	NC	137	03/15/18	NC	NC	--	--	.	--	--	--
Hardness, in milligrams per liter	1995-2017	98	0	26.9	67.3	92.3	03/10/14	35.5	82.4	--	--	.	--	--	--
Hardness, in milligrams per liter	2018-2019	7	0	37.6	83.5	96.4	03/15/18	43.5	96.1	--	--	.	--	--	--
Calcium, in milligrams per liter	1995-2017	98	0	8.8	22.4	30.4	03/10/14	11.9	26.9	--	--	.	--	0.022	--
Calcium, in milligrams per liter	2018-2019	7	0	12.6	27.3	31.8	03/15/18	14.6	31.7	--	--	.	--	0.022	--
Magnesium, in milligrams per liter	1995-2017	98	0	1.1	2.8	5.1	04/12/11	1.4	3.8	--	--	.	--	0.011	--
Magnesium, in milligrams per liter	2018-2019	7	0	1.5	3.5	4.2	08/14/18	1.7	4.2	--	--	.	--	0.011	--
Potassium, in milligrams per liter	1995-2017	31	0	0.30	0.75	1.3	08/05/02	0.41	1.0	--	--	.	--	0.10	--
Potassium, in milligrams per liter	2018-2019	5	0	0.54	NC	1.2	03/15/18	NC	NC	--	--	.	--	0.30	--
Sodium, in milligrams per liter	1995-2017	31	0	1.2	3.7	7.9	01/18/96	1.5	6.7	--	--	.	--	0.10	--
Sodium, in milligrams per liter	2018-2019	5	0	1.6	NC	8.2	03/15/18	NC	NC	--	--	.	--	0.40	--
Acid neutralizing capacity, in milligrams per liter	1995-1997	15	0	22.0	44.0	63.0	02/21/96	24.0	58.4	--	--	.	--	--	--
Alkalinity, in milligrams per liter	2002-2014	2	0	56.1	NC	57.2	08/05/02	NC	NC	--	--	.	--	4.6	--
Alkalinity, Gran titration, in milligrams per liter	2016-2017	2	0	33.8	NC	39.6	04/24/17	NC	NC	--	--	--	--	--	--
Alkalinity, inflection-point titration, in milligrams per liter	1997-2017	13	0	25.8	43.0	56.8	09/11/17	27.8	55.0	--	--	.	--	--	--
Alkalinity, inflection-point titration, in milligrams per liter	2018-2019	5	0	26.6	NC	58.2	03/15/18	NC	NC	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	1997-2017	13	0	31.3	52.0	68.4	09/11/17	33.8	66.4	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	2018-2019	5	0	32.4	NC	70.9	03/15/18	NC	NC	--	--	.	--	--	--

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Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Carbonate, in milligrams per liter	2014-2017	12	2	0 *	0.10	0.40	09/11/17	0 *	0.30	--	--	.	--	--	--
Carbonate, in milligrams per liter	2018-2019	5	2	0 *	NC	0.60	07/16/18	NC	NC	--	--	.	--	--	--
Chloride, in milligrams per liter	1995-2017	31	0	0.20	1.8	5.5	03/10/14	0.30	3.3	250	0	.	--	0.020	L
Chloride, in milligrams per liter	2018-2019	5	0	0.68	NC	4.2	03/15/18	NC	NC	250	0	.	--	0.020	NC
Fluoride, in milligrams per liter	1995-2017	30	3	0 *	0.20	0.50	12/28/96	0.083	0.35	--	--	.	--	0.010	--
Fluoride, in milligrams per liter	2018-2019	5	0	0.085	NC	0.45	03/15/18	NC	NC	--	--	.	--	0.010	--
Silica, in milligrams per liter	1995-2017	31	0	3.9	6.0	7.2	03/25/95	5.1	6.8	--	--	.	--	0.018	--
Silica, in milligrams per liter	2018-2019	5	0	5.4	NC	6.2	11/13/17	NC	NC	--	--	.	--	0.050	--
Sulfate, in milligrams per liter	1995-2017	31	0	7.7	26.0	46.0	12/28/96	9.9	34.6	250	0	.	--	0.020	L
Sulfate, in milligrams per liter	2018-2019	5	0	11.1	NC	43.3	03/15/18	NC	NC	250	0	.	--	0.020	NC
Ammonia plus organic nitrogen in milligrams per liter as N	1995-2017	139	23	0 *	0.132	0.963	02/27/02	0 *	0.275	--	--	--	--	0.070	--
Ammonia plus organic nitrogen in milligrams per liter as N	2018-2019	7	0	0.071	0.098	0.409	08/14/18	0.074	0.360	--	--	--	--	0.070	--
Ammonia, in milligrams per liter as N	1995-2017	139	41	0 *	0.022	0.779	02/27/02	0 *	0.150	3.59	0	10.6	0	0.010	L
Ammonia, in milligrams per liter as N	2018-2019	7	4	0 *	0 *	0.017	03/15/18	0 *	0.017	2.66	0	7.68	0	0.010	L
Nitrite plus nitrate in milligrams per liter as N	1995-2017	139	0	0.006	0.117	0.710	02/18/97	0.057	0.329	--	--	10.0	0	0.010	--
Nitrite plus nitrate in milligrams per liter as N	2018-2019	7	0	0.039	0.192	0.688	01/18/18	0.046	0.677	--	--	10.0	0	0.010	--
Nitrite, in milligrams per liter as N	1995-2017	139	49	0 *	0.002	0.030	10/24/95	0 *	0.007	--	--	0.05	0	0.0010	--
Nitrite, in milligrams per liter as N	2018-2019	7	1	0 *	0.004	0.018	08/14/18	0.0003	0.016	--	--	0.05	0	0.0010	--
Orthophosphate, in milligrams per liter as P	1995-2017	139	24	0 *	0.023	0.178	03/09/10	0 *	0.069	--	--	--	--	0.0040	--
Orthophosphate, in milligrams per liter as P	2018-2019	7	0	0.005	0.025	0.143	08/14/18	0.007	0.126	--	--	--	--	0.0040	--
Phosphorus, in milligrams per liter as P	1995-2002	50	13	0 *	0.020	0.120	02/18/97	0 *	0.077	--	--	--	--	0.0044	--
Phosphorus (total), in milligrams per liter as P	1995-2017	139	8	0 *	0.050	0.206	02/11/03	0.017	0.090	--	--	--	--	0.0040	--
Phosphorus (total), in milligrams per liter as P	2018-2019	7	0	0.019	0.037	0.207	08/14/18	0.022	0.183	--	--	--	--	0.0040	--
<i>Escherichia coli</i> , in colonies per 100 milliliters	2001-2017	101	17	1	5	590	08/01/12	--	6 **	126	4	--	--	1	L
<i>Escherichia coli</i> , in colonies per 100 milliliters	2018-2019	7	2	1	4	86	07/16/18	--	5 **	126	0	--	--	1	L
Biomass periphyton, ashfree drymass, in grams per square meter	1997-2017	18	4	0 *	10.1	26.9	09/03/09	0 *	24.4	--	--	--	--	0.10	--
Biomass periphyton, ashfree drymass, in grams per square meter	2019	1	0	15.2	NC	15.2	10/22/18	NC	NC	--	--	--	--	0.70	--
Periphyton, biomass, ash weight, in grams per square meter	1997-2017	18	0	58.2	356	842	08/26/03	119	705	--	--	--	--	0.10	--
Periphyton, biomass, ash weight, in grams per square meter	2019	1	0	168	NC	168	10/22/18	NC	NC	--	--	--	--	0.70	--
Periphyton, biomass, dry weight, in grams per square meter	1997-2017	18	0	61.0	375	858	08/26/03	122	730	--	--	--	--	0.10	--
Periphyton, biomass, dry weight, in grams per square meter	2019	1	0	184	NC	184	10/22/18	NC	NC	--	--	--	--	0.70	--
Chlorophyll a, periphyton, chromofluoro, in milligrams per square meter	1997-2017	17	0	1.80	24.0	84.7	08/14/07	2.72	54.8	--	--	--	--	0.10	--
Chlorophyll a, periphyton, chromofluoro, in milligrams per square meter	2019	1	0	116	NC	116	10/22/18	NC	NC	--	--	--	--	0.10	--
Pheophytin a, periphyton, in milligrams per square meter	2002-2017	15	0	0.610	6.66	36.4	10/12/11	1.51	28.8	--	--	--	--	0.10	--
Pheophytin a, periphyton, in milligrams per square meter	2019	1	0	18.1	NC	18.1	10/22/18	NC	NC	--	--	--	--	0.10	--
Aluminum, in micrograms per liter	1999-2017	83	2	0 *	11.3	250	06/19/17	6.3	54.2	--	--	.	--	3.0	--

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Aluminum, in micrograms per liter	2018-2019	7	0	3.9	7.9	48.7	05/14/18	4.0	41.4	--	--	.	--	3.0	--
Aluminum (total), in micrograms per liter	1999-2017	36	0	21.0	98.2	1,496	05/16/16	36.9	533	335	7	2,346	0	3.0	L
Aluminum (total), in micrograms per liter	2018-2019	7	0	50.7	81.0	322	05/14/18	50.9	277	335	0	2,346	0	3.0	L
Cadmium, in micrograms per liter	1999-2017	83	6	0 *	0.21	1.2	04/14/99	0.13	0.42	0.58	7	1.4	0	0.030	M
Cadmium, in micrograms per liter	2018-2019	7	0	0.10	0.13	0.25	05/14/18	0.10	0.23	0.58	0	1.4	0	0.030	L
Cadmium (total), in micrograms per liter	1999	2	2	0 *	NC	0 *	06/02/99	NC	NC	--	--	.	--	--	--
Copper, in micrograms per liter	1999-2017	83	21	0 *	0.99	8.1	10/16/07	0 *	2.0	7.1	1	10.4	0	0.20	L
Copper, in micrograms per liter	2018-2019	7	0	0.85	1.2	1.6	05/14/18	0.88	1.6	7.1	0	10.4	0	0.40	L
Iron, in micrograms per liter	1995-2017	90	0	15.5	54.0	222	04/24/17	29.6	82.4	300	0	.	--	10.0	L
Iron, in micrograms per liter	2018-2019	7	0	46.2	53.5	67.5	08/14/18	46.9	66.7	300	0	.	--	10.0	L
Lead, in micrograms per liter	1999-2017	83	16	0 *	0.19	2.4	06/19/17	0 *	0.64	1.9	1	47.8	0	0.020	L
Lead, in micrograms per liter	2018-2019	7	0	0.041	0.14	0.38	05/14/18	0.043	0.34	1.9	0	47.8	0	0.020	L
Manganese, in micrograms per liter	1995-2017	90	0	12.8	45.2	158	04/14/99	16.6	69.7	1,505	0	2,724	0	0.40	L
Manganese, in micrograms per liter	2018-2019	7	0	14.5	42.2	75.1	03/15/18	16.3	72.0	1,505	0	2,724	0	0.40	L
Silver, in micrograms per liter	1999-2017	83	80	0 *	0 *	0.031	08/11/10	0 *	0 *	0.047	0	1.3	0	1.0	L
Silver, in micrograms per liter	2018-2019	7	7	0 *	0 *	0 *	11/13/17	0 *	0 *	0.047	0	1.3	0	1.0	L
Zinc, in micrograms per liter	1999-2017	83	0	4.9	34.8	455	04/14/99	19.8	80.7	94.3	9	125	6	2.0	M
Zinc, in micrograms per liter	2018-2019	7	0	5.5	19.3	37.1	05/14/18	5.7	36.3	94.3	0	125	0	2.0	L
Selenium, in micrograms per liter	2006	1	0	0.24	NC	0.24	07/12/06	NC	NC	4.6	0	18.4	0	0.080	NC
Organic carbon, in milligrams per liter	1997-2002	2	0	0.80	NC	1.4	08/05/02	NC	NC	--	--	.	--	0.33	--
Suspended sediment, in milligrams per liter	1999-2017	73	0	1	4	101	05/26/04	1	21	--	--	--	--	1.0	--
Suspended sediment, in milligrams per liter	2018-2019	5	0	1	NC	13	05/14/18	NC	NC	--	--	--	--	1.0	--