

Table 20. Summary of measured constituents and properties for Big Thompson River below Loveland, Co., station 06741520  
[--, 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]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Standard or Chronic standard	Number of exceedences Chronic	Acute standard	Number of exceedences Acute	LRL	Level of concern
Instantaneous discharge, in cubic feet per second	2001-2008	112	0	7.09	43.7	253	08/19/04	14.8	106	--	--	--	--	--	--
Instantaneous discharge, in cubic feet per second	2009-2010	27	0	14.2	50.0	643	06/09/10	16.3	149	--	--	--	--	--	--
Turbidity, in NTRU	2005-2008	54	10	0 *	4.2	29.3	07/15/05	0 *	13.4	--	--	--	--	2	--
Turbidity, in NTRU	2009-2010	21	4	0 *	3.3	20.1	06/09/10	0 *	9.2	--	--	--	--	--	--
Dissolved oxygen, in milligrams per liter	2001-2008	110	0	5.7	9.0	16.5	04/18/01	7.2	11.9	5.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2009-2010	26	0	6.8	8.8	14.4	03/09/10	8.0	12.4	5.0	0	--	--	--	L
pH, in standard units	2001-2008	111	0	7.2	8.0	8.8	07/18/01	7.8	8.4	6.5	0	9.0	--	--	L
pH, in standard units	2009-2010	27	0	7.5	8.0	8.7	03/09/10	7.8	8.2	6.5	0	9.0	--	--	L
Specific conductance, in uS/cm	2001-2008	112	0	251	706	1463	03/27/03	368	1242	--	--	--	--	--	--
Specific conductance, in uS/cm	2009-2010	27	0	134	702	1340	05/03/10	379	1249	--	--	--	--	--	--
Temperature, Degrees C	2001-2008	112	0	1.5	13.5	24.5	07/18/01	5.5	19.5	30.0	0	--	--	--	L
Temperature, Degrees C	2009-2010	27	0	2.8	12.8	22.2	07/28/10	7.5	19.4	30.0	0	--	--	--	L
Calcium, in milligrams per liter	2001-2008	108	0	20.0	64.3	152	03/10/05	35.1	121	--	--	--	--	0.04	--
Calcium, in milligrams per liter	2009-2010	21	0	11.4	82.3	130	05/03/10	36.5	117	--	--	--	--	--	--
Magnesium, in milligrams per liter	2001-2008	108	0	8.10	30.2	76.5	12/09/04	13.0	52.4	--	--	--	--	0.02	--
Magnesium, in milligrams per liter	2009-2010	21	0	4.22	36.9	59.4	05/03/10	17.8	51.7	--	--	--	--	--	--
Potassium, in milligrams per liter	2002-2008	93	0	1.37	3.03	9.36	01/16/03	1.78	7.59	--	--	--	--	0.02	--
Potassium, in milligrams per liter	2009-2010	21	0	1.12	5.16	9.16	03/10/09	2.14	7.44	--	--	--	--	--	--
Sodium, in milligrams per liter	2001-2008	108	0	13.0	44.8	122	05/22/03	18.3	87.1	--	--	--	--	0.12	--
Sodium, in milligrams per liter	2009-2010	21	0	7.18	60.5	95.6	05/03/10	22.9	90.2	--	--	--	--	--	--
Alkalinity, in milligrams per liter	2002-2008	93	0	34.1	90.6	181	01/14/08	56.7	152	--	--	--	--	5	--
Alkalinity, in milligrams per liter	2009-2010	21	0	22.2	114	161	05/03/10	57.7	154	--	--	--	--	--	--
Chloride, in milligrams per liter	2001-2008	108	0	4.00	14.4	81.5	12/13/07	7.32	41.2	--	--	--	--	0.12	--
Chloride, in milligrams per liter	2009-2010	21	0	3.97	25.9	62.6	11/17/09	10.9	47.7	--	--	--	--	--	--
Sulfate, in milligrams per liter	2001-2008	108	0	63.5	245	592	12/09/04	106	449	--	--	--	--	0.18	--
Sulfate, in milligrams per liter	2009-2010	21	0	30.5	309	492	05/03/10	138	435	--	--	--	--	--	--
Residue, in milligrams per liter	2001-2008	108	0	163	522	1139	12/09/04	244	933	--	--	--	--	10	--
Residue, in milligrams per liter	2009-2010	21	0	93.4	702	1019	05/03/10	288	948	--	--	--	--	--	--
Ammonia plus organic nitrogen in milligrams per liter	2001-2008	112	1	0 *	0.630	8.51	02/13/03	0.447	1.73	--	--	--	--	0.14	--
Ammonia plus organic nitrogen in milligrams per liter	2009-2010	26	0	0.410	0.689	1.41	03/10/09	0.487	1.13	--	--	--	--	--	--
Ammonia nitrogen, in milligrams per liter	2001-2008	111	1	0 *	0.030	6.51	02/13/03	0.016	0.258	2.22	6	5.87	1	0.02	L
Ammonia nitrogen, in milligrams per liter	2009-2010	27	0	0.010	0.027	0.094	12/08/08	0.018	0.060	2.23	0	5.98	0	--	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2001-2008	112	1	0 *	2.88	13.6	02/12/04	0.999	7.57	100	0	--	--	0.04	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2009-2010	27	0	0.085	4.22	8.24	05/06/09	1.43	7.40	100	0	--	--	--	L
Total nitrogen, in milligrams per liter	2010-2010	1	0	2.42	2.42	2.42	07/28/10	2.42	2.42	--	--	--	--	--	--
Total nitrogen (total), in milligrams per liter	2010-2010	1	0	2.51	2.51	2.51	07/28/10	2.51	2.51	--	--	--	--	--	--
Orthophosphate, in milligrams per liter	2001-2008	111	3	0 *	0.509	2.34	01/16/03	0.196	1.73	--	--	--	--	0.006	--
Orthophosphate, in milligrams per liter	2009-2010	27	0	0.030	0.767	2.42	03/10/09	0.234	1.70	--	--	--	--	--	--
Phosphorus, in milligrams per liter	2001-2008	110	0	0.007	0.560	2.67	02/12/04	0.217	1.93	--	--	--	--	0.02	--
Phosphorus, in milligrams per liter	2009-2010	27	0	0.063	0.770	2.29	03/10/09	0.279	1.64	--	--	--	--	--	--
Phosphorus (total), in milligrams per liter	2001-2008	111	1	0 *	0.610	2.82	02/13/03	0.252	1.94	--	--	--	--	0.02	--

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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	Standard or Chronic standard	Number of exceedences Chronic	Acute standard	Number of exceedences Acute	LRL	Level of concern
Phosphorus (total), in milligrams per liter	2009-2010	27	0	0.127	0.819	2.56	03/10/09	0.303	1.72	--	--	--	--	--	--
Organic carbon (total), in milligrams per liter	2001-2008	80	0	1.60	5.33	10.8	02/12/04	4.10	7.79	--	--	--	--	0.5	--
Organic carbon (total), in milligrams per liter	2009-2010	26	0	4.05	6.15	13.3	05/19/10	4.43	7.29	--	--	--	--	--	--
Arsenic, in micrograms per liter	2001-2008	108	16	0 *	0.45	1.31	10/10/02	0.09	0.69	--	--	--	--	0.06	--
Arsenic, in micrograms per liter	2009-2010	21	0	0.26	0.43	0.75	08/11/09	0.32	0.61	--	--	--	--	--	--
Cadmium, in micrograms per liter	2010-2010	8	1	0 *	0.03	0.06	04/05/10	0.00	0.05	1.20	0	9.15	0	--	L
Copper, in micrograms per liter	2001-2008	108	5	0 *	2.99	12.9	12/13/07	1.67	5.16	29.3	0	49.6	0	1	L
Copper, in micrograms per liter	2009-2010	21	1	0 *	2.42	6.37	04/05/10	1.22	4.64	29.3	0	49.6	0	--	L
Iron, in micrograms per liter	2001-2008	108	9	0 *	41.0	390	03/20/02	13.7	66.0	1000	0	--	--	8	L
Iron, in micrograms per liter	2009-2010	21	0	15.1	43.9	125	06/09/10	19.8	51.4	1000	0	--	--	--	L
Lead, in micrograms per liter	2001-2008	108	15	0 *	0.16	1.47	02/12/04	0.05	0.51	10.9	0	281	0	0.08	L
Lead, in micrograms per liter	2009-2010	21	1	0 *	0.18	1.65	10/16/08	0.07	0.36	10.9	0	281	0	--	L
Manganese, in micrograms per liter	2001-2008	108	0	10.0	26.2	105	04/17/03	16.4	62.8	2618	0	4738	0	0.2	L
Manganese, in micrograms per liter	2009-2010	21	0	17.5	26.8	64.0	03/09/10	18.8	52.9	2618	0	4738	0	--	L
Mercury, in nanograms per liter	2005-2008	6	0	1.10	2.50	3.40	04/09/08	1.12	3.39	10.0	0	--	--	0.4	L
Mercury, in nanograms per liter	2009-2010	15	0	1.13	1.61	6.57	06/09/10	1.19	2.51	10.0	0	--	--	--	L
Nickel, in micrograms per liter	2001-2008	108	7	0 *	1.63	6.69	11/17/05	0.68	4.83	168	0	1513	0	0.2	L
Nickel, in micrograms per liter	2009-2010	21	0	0.49	1.54	3.19	05/03/10	0.68	2.42	168	0	1513	0	--	L
Selenium, in micrograms per liter	2005-2008	8	0	0.76	1.27	3.16	05/16/07	0.80	3.14	4.60	0	18.4	0	0.04	M
Selenium, in micrograms per liter	2009-2010	6	0	1.16	2.99	5.47	05/03/10	1.18	5.39	4.60	1	18.4	0	--	H
Silver, in micrograms per liter	2001-2008	108	100	0 *	0 *	0.27	02/12/04	0 *	0 *	3.47	0	22.0	0	0.1	L
Silver, in micrograms per liter	2009-2010	21	10	0 *	0.01	0.04	10/16/08	0 *	0.02	3.47	0	22.0	0	--	L
Benzene (total), in micrograms per liter	2001-2008	96	96	0 *	0 *	0 *	03/14/01	0 *	0 *	2.20	0	--	--	0.4	L
Ethylbenzene (total), in micrograms per liter	2001-2008	93	91	0 *	0 *	0.80	11/07/01	0 *	0 *	530	0	--	--	0.4	L
m- + p-Xylene (total) in micrograms per liter	2001-2008	96	95	0 *	0 *	0.40	12/12/02	0 *	0 *	1400	0	--	--	0.4	L
o-Xylene (total), in micrograms per liter	2001-2008	96	96	0 *	0 *	0 *	03/14/01	0 *	0 *	1400	0	--	--	0.4	L
Toluene (total), in micrograms per liter	2001-2008	96	89	0 *	0 *	0.82	05/22/03	0 *	0 *	510	0	--	--	0.4	L