

Table 13. Summary of measured constituents and properties for Big Thompson River above north Fork Big Thompson River, station 402554105202100
[--, 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	2000-2008	117	0	16.1	79.9	695	06/03/03	23.7	170	--	--	--	--	--	--
Instantaneous discharge, in cubic feet per second	2009-2010	21	0	15.0	73.6	990	06/07/10	20.7	137	--	--	--	--	--	--
Turbidity, in NTRU	2005-2008	54	29	0 *	0 *	13.9	05/24/05	0 *	3.7	--	--	--	--	2	--
Turbidity, in NTRU	2009-2010	21	7	0 *	1.3	56.1	06/07/10	0 *	3.6	--	--	--	--	--	--
Dissolved oxygen, in milligrams per liter	2000-2008	115	0	7.1	9.6	14.0	02/05/02	7.9	11.9	6.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2009-2010	21	0	8.0	10.1	12.1	11/16/09	8.4	12.0	6.0	0	--	--	--	L
pH, in standard units	2000-2008	117	0	6.9	7.9	9.1	04/11/06	7.5	8.4	6.5	1	9.0	--	--	L
pH, in standard units	2009-2010	21	0	7.5	7.8	8.6	06/07/10	7.6	8.0	6.5	0	9.0	--	--	L
Specific conductance, in uS/cm	2000-2008	117	0	24.0	61.0	166	03/25/03	36.0	83.3	--	--	--	--	--	--
Specific conductance, in uS/cm	2009-2010	21	0	29.0	66.0	103	04/06/10	36.0	83.7	--	--	--	--	--	--
Temperature, Degrees C	2000-2008	117	0	0.0	8.5	20.0	08/12/03	0.5	16.5	17.0	10	--	--	--	L
Temperature, Degrees C	2009-2010	21	0	0.0	6.5	17.5	08/09/10	0.1	14.5	17.0	1	--	--	--	L
Calcium, in milligrams per liter	2000-2008	119	1	0 *	6.20	12.9	03/25/03	3.40	8.56	--	--	--	--	0.04	--
Calcium, in milligrams per liter	2009-2010	21	0	2.31	6.96	9.32	04/06/10	3.14	9.05	--	--	--	--	--	--
Magnesium, in milligrams per liter	2000-2008	119	1	0 *	1.36	2.86	04/15/03	0.77	1.82	--	--	--	--	0.02	--
Magnesium, in milligrams per liter	2009-2010	21	0	0.51	1.40	1.89	04/06/10	0.73	1.82	--	--	--	--	--	--
Potassium, in milligrams per liter	2002-2008	93	0	0.27	0.82	2.36	03/25/03	0.51	1.19	--	--	--	--	0.02	--
Potassium, in milligrams per liter	2009-2010	21	0	0.44	0.89	1.53	03/08/10	0.55	1.20	--	--	--	--	--	--
Sodium, in milligrams per liter	2000-2008	119	1	0 *	3.44	12.7	03/25/03	2.15	5.05	--	--	--	--	0.12	--
Sodium, in milligrams per liter	2009-2010	21	0	1.67	3.91	7.12	04/06/10	2.30	5.12	--	--	--	--	--	--
Alkalinity, in milligrams per liter	2002-2008	93	0	8.71	22.7	36.1	03/14/07	12.1	29.9	--	--	--	--	5	--
Alkalinity, in milligrams per liter	2009-2010	21	0	8.74	25.3	32.9	04/14/09	11.4	30.3	--	--	--	--	--	--
Chloride, in milligrams per liter	2000-2008	119	2	0 *	2.29	22.2	03/25/03	1.28	4.47	250	0	--	--	0.12	L
Chloride, in milligrams per liter	2009-2010	21	0	1.28	2.52	10.3	04/06/10	1.52	5.50	250	0	--	--	--	L
Sulfate, in milligrams per liter	2000-2008	119	8	0 *	3.29	8.79	04/15/03	2.03	4.95	250	0	--	--	0.18	L
Sulfate, in milligrams per liter	2009-2010	21	0	1.76	3.87	6.13	04/06/10	2.10	5.13	250	0	--	--	--	L
Residue, in milligrams per liter	2000-2008	118	1	0 *	45.8	120	11/06/01	29.2	58.1	--	--	--	--	10	--
Residue, in milligrams per liter	2009-2010	21	0	22.6	47.9	68.3	03/08/10	29.0	64.7	--	--	--	--	--	--
Ammonia plus organic nitrogen in milligrams per liter	2000-2008	117	0	0.157	0.284	0.666	04/16/02	0.216	0.407	--	--	--	--	0.14	--
Ammonia plus organic nitrogen in milligrams per liter	2009-2010	21	0	0.220	0.281	0.635	06/07/10	0.229	0.389	--	--	--	--	--	--
Ammonia nitrogen, in milligrams per liter	2000-2008	117	45	0 *	0.007	0.212	01/10/06	0 *	0.037	2.80	0	8.07	0	0.02	L
Ammonia nitrogen, in milligrams per liter	2009-2010	21	10	0 *	0.011	0.125	02/02/10	0 *	0.064	2.92	0	7.66	0	--	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2000-2008	117	3	0 *	0.235	0.938	03/25/03	0.080	0.533	10.0	0	--	--	0.016	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2009-2010	21	1	0 *	0.336	0.704	03/08/10	0.050	0.594	10.0	0	--	--	--	L
Orthophosphate, in milligrams per liter	2000-2008	116	1	0 *	0.022	0.181	02/13/08	0.008	0.070	--	--	--	--	0.006	--
Orthophosphate, in milligrams per liter	2009-2010	21	0	0.007	0.044	0.123	03/08/10	0.012	0.106	--	--	--	--	--	--
Phosphorus, in milligrams per liter	2000-2008	116	0	0.005	0.032	0.194	02/13/08	0.015	0.081	--	--	--	--	0.006	--
Phosphorus, in milligrams per liter	2009-2010	21	0	0.009	0.050	0.126	03/08/10	0.019	0.116	--	--	--	--	--	--
Phosphorus (total), in milligrams per liter	2000-2008	116	0	0.015	0.058	0.201	02/13/08	0.032	0.104	--	--	--	--	0.008	--
Phosphorus (total), in milligrams per liter	2009-2010	21	0	0.023	0.064	0.161	06/07/10	0.040	0.137	--	--	--	--	--	--
Organic carbon (total), in milligrams per liter	2000-2008	96	1	0 *	3.55	9.50	06/07/05	2.90	4.72	--	--	--	--	0.5	--

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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
Organic carbon (total), in milligrams per liter	2009-2010	21	0	3.30	4.10	8.20	05/03/10	3.74	6.31	--	--	--	--	--	--
Arsenic, in micrograms per liter	2000-2008	119	31	0 *	0.16	0.29	03/25/03	0 *	0.21	--	--	--	--	0.06	--
Arsenic, in micrograms per liter	2009-2010	21	0	0.10	0.19	0.23	10/05/09	0.15	0.22	--	--	--	--	--	--
Copper, in micrograms per liter	2000-2008	119	24	0 *	0.94	13.1	09/11/07	0 *	1.92	2.69	9	3.56	4	1	M
Copper, in micrograms per liter	2009-2010	21	1	0 *	1.34	3.19	03/08/10	0.76	2.64	2.69	2	3.56	0	--	M
Iron, in micrograms per liter	2000-2008	119	17	0 *	36.4	169	11/16/04	12.6	74.8	300	0	--	--	8	L
Iron, in micrograms per liter	2009-2010	21	0	21.0	41.1	199	05/03/10	23.9	81.3	300	0	--	--	--	L
Lead, in micrograms per liter	2000-2008	119	57	0 *	0.04	1.27	07/10/07	0 *	0.11	0.53	2	13.5	0	0.08	L
Lead, in micrograms per liter	2009-2010	21	3	0 *	0.03	0.13	06/07/10	0.01	0.06	0.53	0	13.5	0	--	L
Manganese, in micrograms per liter	2000-2008	119	24	0 *	2.02	17.5	04/15/03	0 *	3.38	1031	0	1867	0	0.2	L
Manganese, in micrograms per liter	2009-2010	21	0	1.11	2.42	12.6	06/07/10	1.49	4.33	1031	0	1867	0	--	L
Mercury, in nanograms per liter	2005-2008	20	0	0.30	1.80	5.50	06/07/05	0.71	3.21	10.0	0	--	--	0.04	L
Mercury, in nanograms per liter	2009-2010	6	0	0.81	1.82	10.2	06/07/10	0.81	9.83	10.0	1	--	--	--	M
Nickel, in micrograms per liter	2000-2008	119	26	0 *	0.27	1.17	04/11/06	0 *	0.54	15.8	0	142	0	0.2	L
Nickel, in micrograms per liter	2009-2010	20	0	0.19	0.33	0.67	02/02/10	0.22	0.58	15.8	0	142	0	--	L
Selenium, in micrograms per liter	2005-2007	5	1	0 *	0.05	0.20	06/07/05	0 *	0.20	4.60	0	18.4	0	0.08	L
Silver, in micrograms per liter	2000-2008	119	119	0 *	0 *	0 *	08/30/00	0 *	0 *	0.01	0	0.18	0	0.1	L
Silver, in micrograms per liter	2009-2010	21	19	0 *	0 *	0.01	03/08/10	0 *	0 *	0.01	0	0.18	0	--	L
Benzene (total), in micrograms per liter	2000-2008	108	108	0 *	0 *	0 *	08/30/00	0 *	0 *	2.20	0	--	--	0.4	L
Ethylbenzene (total), in micrograms per liter	2000-2008	105	101	0 *	0 *	0.80	10/23/01	0 *	0 *	530	0	--	--	0.4	L
m- + p-Xylene (total) in micrograms per liter	2000-2008	108	108	0 *	0 *	0 *	08/30/00	0 *	0 *	1400	0	--	--	0.4	L
o-Xylene (total), in micrograms per liter	2000-2008	108	108	0 *	0 *	0 *	08/30/00	0 *	0 *	1400	0	--	--	0.4	L
Toluene (total), in micrograms per liter	2000-2008	108	108	0 *	0 *	0 *	08/30/00	0 *	0 *	510	0	--	--	0.4	L