

Table 13. Summary of measured constituents and properties for Purgatoire River near Thatcher, Co., station 07126300

[--, 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	1990-2017	202	0	0.070	25.0	1,560	05/03/99	9.9	77.3	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2018-2019	8	0	1.6	19.9	239	06/11/19	4.5	171	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	1990-2017	20	0	7.3	9.1	11.9	11/25/14	7.5	10.9	5.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2018-2019	7	0	6.5	9.3	12.4	11/26/18	6.8	12.1	5.0	0	--	--	--	L
pH, in standard units	1990-2017	21	0	7.6	8.3	8.5	12/05/12	8.1	8.4	6.5-9.0	0	--	--	--	L
pH, in standard units	2018-2019	8	0	8.2	8.3	8.8	11/29/17	8.2	8.7	6.5-9.0	0	--	--	--	L
pH, laboratory, in standard units	1990-2016	4	0	7.8	NC	8.3	11/05/13	NC	NC	6.5-9.0	0	--	--	0.10	NC
pH, laboratory, in standard units	2018	1	0	8.2	NC	8.2	11/29/17	NC	NC	6.5-9.0	0	--	--	0.10	NC
Specific conductance, laboratory, in microsiemens per centimeter	1990-2016	63	0	605	2,480	3,410	11/15/90	1,236	3,254	--	--	.	--	5.0	--
Specific conductance, in microsiemens per centimeter	1990-2017	52	0	835	2,714	4,730	06/18/02	1,357	3,271	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2018-2019	8	0	680	2,561	3,211	11/26/18	1,068	3,170	--	--	.	--	--	--
Temperature, water, degrees Celsius	1990-2017	88	0	0.0	15.0	29.5	06/18/02	3.3	23.7	--	--	--	--	--	--
Temperature, water, degrees Celsius	2018-2019	8	0	0.8	14.4	25.2	08/01/18	2.2	24.2	--	--	--	--	--	--
Temperature, water, degrees Celsius March-November	1990-2017	72	0	1.2	17.0	29.5	06/18/02	8.3	24.7	28.6	2	--	--	--	L
Temperature, water, degrees Celsius March-November	2018-2019	8	0	0.8	14.4	25.2	08/01/18	2.2	24.2	28.6	0	--	--	--	L
Temperature, water, degrees Celsius December-February	1993-2016	16	0	0.0	1.5	5.5	12/05/12	0.2	4.7	14.3	0	--	--	--	L
Dissolved solids dried at 180 degrees C, in milligrams per liter	1990-2017	21	0	612	2,045	3,500	05/20/13	970	2,913	--	--	.	--	20.0	--
Dissolved solids dried at 180 degrees C, in milligrams per liter	2018-2019	8	0	447	2,272	2,895	11/26/18	801	2,875	--	--	.	--	20.0	--
Dissolved solids, sum of constituents, in milligrams per liter	1990-2017	8	0	717	2,096	2,895	11/15/90	802	2,824	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	2018-2019	8	0	435	1,980	2,681	11/26/18	762	2,649	--	--	.	--	--	--
Hardness, in milligrams per liter	1990-2017	21	0	344	1,131	1,714	05/20/13	531	1,580	--	--	.	--	--	--
Hardness, in milligrams per liter	2018-2019	8	0	257	1,195	1,605	11/26/18	453	1,571	--	--	.	--	--	--
Suspended solids, in milligrams per liter	1991	1	0	36.0	NC	36.0	11/15/90	NC	NC	--	--	.	--	--	--
Calcium, in milligrams per liter	1990-2017	21	0	90.1	216	318	05/20/13	118	287	--	--	.	--	0.022	--
Calcium, in milligrams per liter	2018-2019	8	0	60.6	220	297	11/26/18	93.1	280	--	--	.	--	0.022	--
Magnesium, in milligrams per liter	1990-2017	21	0	26.3	142	223	05/20/13	57.7	212	--	--	.	--	0.011	--
Magnesium, in milligrams per liter	2018-2019	8	0	25.6	157	216	04/18/18	53.5	214	--	--	.	--	0.010	--
Potassium, in milligrams per liter	1990-2017	21	0	2.8	4.8	14.3	12/05/12	3.7	7.6	--	--	.	--	0.10	--
Potassium, in milligrams per liter	2018-2019	8	0	1.8	4.8	10.4	08/01/18	2.4	8.7	--	--	.	--	0.30	--
Sodium, in milligrams per liter	1990-2017	21	0	42.4	188	337	05/20/13	91.3	275	--	--	.	--	0.10	--
Sodium, in milligrams per liter	2018-2019	8	0	52.2	197	263	04/18/18	76.4	255	--	--	.	--	0.40	--
Acid neutralizing capacity, in milligrams per liter	1990-1991	2	0	186	NC	211	11/15/90	NC	NC	--	--	.	--	--	--
Alkalinity, in milligrams per liter	2016-2017	6	0	165	196	203	08/15/17	166	202	--	--	.	--	4.0	--
Alkalinity, in milligrams per liter	2018-2019	8	0	108	191	260	11/26/18	124	250	--	--	.	--	4.0	--
Chloride, in milligrams per liter	1990-2017	21	0	8.3	49.4	81.4	05/20/13	24.3	62.4	250	0	.	--	0.020	L
Chloride, in milligrams per liter	2018-2019	8	0	15.6	44.8	60.5	11/26/18	20.2	59.1	250	0	.	--	0.020	L

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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
Fluoride, in milligrams per liter	1990-2017	21	0	0.28	0.45	0.93	12/05/12	0.35	0.61	--	--	.	--	0.010	--
Fluoride, in milligrams per liter	2018-2019	8	0	0.41	0.47	0.53	08/01/18	0.42	0.52	--	--	.	--	0.010	--
Silica, in milligrams per liter	1990-2017	21	0	2.2	7.0	10.6	08/15/17	2.6	9.3	--	--	.	--	0.018	--
Silica, in milligrams per liter	2018-2019	8	0	5.9	6.9	9.3	05/23/18	5.9	9.2	--	--	.	--	0.050	--
Sulfate, in milligrams per liter	1990-2017	21	0	330	1,122	2,168	05/20/13	476	1,870	250	21	.	--	0.020	H
Sulfate, in milligrams per liter	2018-2019	8	0	166	1,245	1,705	11/26/18	408	1,694	250	7	.	--	0.020	H
Ammonia nitrogen, in milligrams per liter	2013-2017	19	9	0 *	0.011	0.098	05/20/13	0 *	0.047	1.39	0	3.70	0	0.010	L
Ammonia nitrogen, in milligrams per liter	2018-2019	8	3	0 *	0.018	0.064	04/18/18	0 *	0.053	1.05	0	2.75	0	0.010	L
Ammonia, unfiltered, in milligrams per liter	2013-2017	19	9	0 *	0.022	0.081	08/15/13	0 *	0.037	--	--	--	--	0.020	--
Ammonia, unfiltered, in milligrams per liter	2018-2019	8	4	0 *	0.011	0.039	11/29/17	0 *	0.036	--	--	--	--	0.020	--
Nitrite plus nitrate, in milligrams per liter	1990-2017	20	11	0 *	0 *	0.680	08/15/13	0 *	0.587	--	--	10.0	0	0.040	--
Nitrite plus nitrate, in milligrams per liter	2018-2019	8	4	0 *	0.057	0.617	11/26/18	0 *	0.539	--	--	10.0	0	0.040	--
Orthophosphate, in milligrams per liter	2013-2017	19	13	0 *	0 *	0.025	08/15/13	0 *	0.012	--	--	--	--	0.0040	--
Orthophosphate, in milligrams per liter	2018-2019	8	4	0 *	0.002	0.012	03/20/19	0 *	0.010	--	--	--	--	0.0040	--
Phosphorus, in milligrams per liter	1990-2017	20	17	0 *	0 *	0.030	08/15/13	0 *	0.008	--	--	--	--	0.020	--
Phosphorus, in milligrams per liter	2018-2019	8	8	0 *	0 *	0 *	11/29/17	0 *	0 *	--	--	--	--	0.020	--
Phosphorus, unfiltered, in milligrams per liter	2013-2017	19	0	0.015	0.040	9.66	08/15/13	0.021	0.368	--	--	--	--	0.0040	--
Phosphorus, unfiltered, in milligrams per liter	2018-2019	8	0	0.010	0.035	0.561	06/11/19	0.010	0.415	--	--	--	--	0.0040	--
Total nitrogen, unfiltered, in milligrams per liter	2013-2017	19	0	0.286	0.458	6.34	08/15/13	0.312	0.931	--	--	--	--	0.050	--
Total nitrogen, unfiltered, in milligrams per liter	2018-2019	8	0	0.319	0.547	1.01	06/11/19	0.328	0.988	--	--	--	--	0.050	--
<i>Escherichia coli</i> , Defined Substrate Technology, in colonies per 100 milliliters	2013-2017	18	3	0	9	2,800	08/15/13	--	11 **	126	2	--	--	1	L
<i>Escherichia coli</i> , Defined Substrate Technology, in colonies per 100 milliliters	2018-2019	8	1	1	3	140	06/11/19	--	4 **	126	1	--	--	1	L
Total coliform, Defined Substrate Technology, in colonies per 100 milliliters	2013-2017	18	0	54	2,400	24,000	08/15/13	220	4,225	--	--	--	--	--	--
Total coliform, Defined Substrate Technology, in colonies per 100 milliliters	2018-2019	8	0	150	1,490	2,400	05/23/18	189	2,400	--	--	--	--	--	--
Aluminum, in micrograms per liter	2013-2017	19	15	0 *	0 *	23.9	08/15/13	0 *	3.0	1,438	0	10,071	0	3.0	L
Aluminum, in micrograms per liter	2018-2019	8	6	0 *	0 *	128	06/11/19	0 *	85.7	1,438	0	10,071	0	3.0	L
Barium, in micrograms per liter	2013-2017	19	0	24.8	50.3	107	08/15/13	28.8	83.8	1,000	0	.	--	0.10	L
Barium, in micrograms per liter	2018-2019	8	0	25.4	44.2	77.3	08/20/19	26.5	76.4	1,000	0	.	--	0.10	L
Beryllium, in micrograms per liter	2013-2017	19	16	0 *	0 *	0.506	03/26/13	0 *	0.0080	4.00	0	--	--	0.010	L
Beryllium, in micrograms per liter	2018-2019	8	8	0 *	0 *	0 *	11/29/17	0 *	0 *	4.00	0	--	--	0.010	L
Cadmium, in micrograms per liter	2013-2017	19	17	0 *	0 *	0.17	05/20/13	0 *	0 *	2.0	0	10.0	0	0.030	L
Cadmium, in micrograms per liter	2018-2019	8	8	0 *	0 *	0 *	11/29/17	0 *	0 *	2.0	0	10.0	0	0.030	L
Cadmium, unfiltered, in micrograms per liter	1991	1	1	0 *	NC	0 *	11/15/90	NC	NC	--	--	.	--	--	--
Chromium, in micrograms per liter	1991-2017	20	17	0 *	0 *	1.0	11/15/90	0 *	0.082	231	0	.	--	0.50	L
Chromium, in micrograms per liter	2018-2019	8	8	0 *	0 *	0 *	11/29/17	0 *	0 *	231	0	.	--	0.50	L

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Cobalt, in micrograms per liter	2013-2017	19	0	0.24	0.65	0.96	11/25/14	0.41	0.88	--	--	.	--	0.030	--
Cobalt, in micrograms per liter	2018-2019	8	1	0 *	0.41	0.78	08/01/18	0.13	0.72	--	--	.	--	0.030	--
Copper, in micrograms per liter	2013-2017	19	13	0 *	0 *	18.1	05/20/13	0 *	1.1	29.3	0	49.6	0	0.20	L
Copper, in micrograms per liter	2018-2019	8	6	0 *	0 *	1.3	03/20/19	0 *	1.1	29.3	0	49.6	0	0.40	L
Copper, unfiltered, in micrograms per liter	1991	1	0	2.0	NC	2.0	11/15/90	NC	NC	--	--	.	--	--	--
Iron, in micrograms per liter	1990-2017	21	6	0 *	11.4	30.0	03/22/90	0 *	19.4	300	0	.	--	10.0	L
Iron, in micrograms per liter	2018-2019	8	7	0 *	0 *	136	06/11/19	0 *	88.3	300	0	.	--	10.0	L
Iron, unfiltered, in micrograms per liter	1991	1	0	640	NC	640	11/15/90	NC	NC	1,000	0	.	--	--	NC
Lead, in micrograms per liter	2013-2017	19	18	0 *	0 *	0.14	05/20/13	0 *	0 *	10.9	0	281	0	0.020	L
Lead, in micrograms per liter	2018-2019	8	7	0 *	0 *	0.13	06/11/19	0 *	0.082	10.9	0	281	0	0.020	L
Lead, unfiltered, in micrograms per liter	1991	1	0	1.0	NC	1.0	11/15/90	NC	NC	--	--	50.0	0	--	--
Manganese, in micrograms per liter	1990-2017	21	0	1.5	29.6	154	05/20/13	9.0	72.3	50.0	4	.	--	0.40	H
Manganese, in micrograms per liter	2018-2019	8	0	7.0	21.4	59.2	03/20/19	8.1	53.2	50.0	1	.	--	0.20	H
Manganese, unfiltered, in micrograms per liter	1991	1	0	80.0	NC	80.0	11/15/90	NC	NC	--	--	.	--	--	--
Molybdenum, in micrograms per liter	2013-2017	19	0	2.42	3.91	7.83	05/20/13	2.67	5.81	210	0	--	--	0.050	L
Molybdenum, in micrograms per liter	2018-2019	8	0	1.97	3.54	6.25	08/01/18	2.37	5.69	210	0	--	--	0.050	L
Nickel, in micrograms per liter	2013-2017	19	0	1.2	2.7	5.9	05/20/13	2.0	3.8	168	0	1,513	0	0.20	L
Nickel, in micrograms per liter	2018-2019	8	1	0 *	1.7	2.7	08/01/18	0.36	2.6	168	0	1,513	0	0.20	L
Silver, in micrograms per liter	2013-2017	19	18	0 *	0 *	0.027	05/20/13	0 *	0 *	3.5	0	22.0	0	1.0	L
Silver, in micrograms per liter	2018-2019	8	8	0 *	0 *	0 *	11/29/17	0 *	0 *	3.5	0	22.0	0	1.0	L
Zinc, in micrograms per liter	2013-2017	19	18	0 *	0 *	24.7	05/20/13	0 *	0 *	428	0	564	0	2.0	L
Zinc, in micrograms per liter	2018-2019	8	8	0 *	0 *	0 *	11/29/17	0 *	0 *	428	0	564	0	2.0	L
Zinc, unfiltered, in micrograms per liter	1991	1	0	10.0	NC	10.0	11/15/90	NC	NC	--	--	.	--	--	--
Antimony, in micrograms per liter	2013-2017	19	2	0 *	0.193	0.430	08/16/16	0.081	0.352	5.60	0	--	--	0.030	L
Antimony, in micrograms per liter	2018-2019	8	3	0 *	0.189	0.292	03/20/19	0 *	0.277	5.60	0	--	--	0.060	L
Arsenic, in micrograms per liter	2013-2017	19	1	0 *	0.65	1.5	05/20/13	0.40	0.98	--	--	340	0	0.050	--
Arsenic, in micrograms per liter	2018-2019	8	2	0 *	0.62	1.2	08/01/18	0 *	1.1	--	--	340	0	0.10	--
Cyanide, unfiltered, in milligrams per liter	1991	1	1	0 *	NC	0 *	11/15/90	NC	NC	--	--	.	--	--	--
Selenium, in micrograms per liter	2013-2017	19	0	1.4	2.4	3.7	08/20/14	1.6	3.3	4.6	0	18.4	0	0.050	M
Selenium, in micrograms per liter	2018-2019	8	0	0.85	2.3	3.0	04/18/18	1.0	3.0	4.6	0	18.4	0	0.050	M
Uranium (natural), in micrograms per liter	2013-2017	19	0	2.0	11.2	18.5	05/20/13	4.7	17.5	30.0	0	.	--	0.010	M
Uranium (natural), in micrograms per liter	2018-2019	8	0	2.9	11.4	18.2	11/26/18	4.2	17.0	30.0	0	.	--	0.030	M
Suspended sediment, in milligrams per liter	1990-1997	92	0	10	76	14,600	08/23/96	29	729	--	--	--	--	--	--