Table 4. Summary of measured constituents and properties for Sugarloaf Gulch above Nelson Mine drain tunnel, station 391502106230601
[--, 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; **, 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	2006-2010	3	0	0.001	0.058	0.13	06/09/10	0.001	0.13	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2011-2012	4	0	0.005	0.029	2.3	06/09/11	0.005	2.3	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	2006-2010	3	0	5.8	6.7	8.5	06/09/10	5.8	8.5	6.0	1	--	--	--	H
Dissolved oxygen, in milligrams per liter	2011-2012	4	0	7.2	8.4	8.8	09/20/12	7.2	8.8	6.0	0	--	--	--	L
pH, in standard units	2003-2010	8	0	4.0	4.3	4.7	06/21/05	4.0	4.7	6.5-9.0	8		--	--	H
pH, in standard units	2011-2012	4	0	3.7	4.0	4.2	05/30/12	3.7	4.2	6.5-9.0	4		--	--	H
Specific conductance, in microsiemens per centimeter	2003-2010	8	0	82.5	138	183	05/16/03	87.6	178	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2011-2012	4	0	174	463	540	09/20/12	174	540	--	--	.	--	--	--
Temperature, degrees Celsius	2003-2010	8	0	5.5	8.3	11.0	06/06/06	5.7	10.3	17.0	--	--	--	--	L
Temperature, degrees Celsius	2011-2012	4	0	6.6	6.9	7.3	06/09/11	6.6	7.3	17.0	--	--	--	--	L
Hardness, in milligrams per liter	2006-2010	3	0	27.4	28.1	36.7	06/09/10	27.4	36.7	--	--	.	--	--	--
Hardness, in milligrams per liter	2011	2	0	31.6	83.9	136	09/29/11	31.6	136	--	--	.	--	--	--
Calcium, in milligrams per liter	2006-2010	3	0	7.7	8.3	10.6	06/09/10	7.7	10.6	--	--	.	--	0.022	--
Calcium, in milligrams per liter	2011	2	0	9.2	24.4	39.7	09/29/11	9.2	39.7	--	--	.	--	0.019	--
Calcium, unfiltered, in milligrams per liter	2006-2010	3	0	7.68	8.81	10.3	06/09/10	7.68	10.3	--	--	--	--	0.022	--
Calcium, unfiltered, in milligrams per liter	2011	2	0	8.72	24.2	39.6	09/29/11	8.72	39.6	--	--	--	--	0.019	--
Magnesium, in milligrams per liter	2006-2010	3	0	1.8	1.9	2.5	06/09/10	1.8	2.5	--	--	.	--	0.011	--
Magnesium, in milligrams per liter	2011	2	0	2.1	5.5	9.0	09/29/11	2.1	9.0	--	--	.	--	0.0021	--
Magnesium, unfiltered, in milligrams per liter	2006-2010	3	0	1.89	1.90	2.42	06/09/10	1.89	2.42	--	--	--	--	0.011	--
Magnesium, unfiltered, in milligrams per liter	2011	2	0	2.09	5.70	9.30	09/29/11	2.09	9.30	--	--	--	--	0.0021	--
Potassium, in milligrams per liter	2006-2010	3	0	0.88	0.96	1.0	06/09/10	0.88	1.0	--	--	.	--	0.0070	--
Potassium, in milligrams per liter	2011	2	0	0.90	1.5	2.1	09/29/11	0.90	2.1	--	--	.	--	0.0048	--
Potassium, unfiltered, in milligrams per liter	2006-2010	3	0	0.877	1.01	1.04	06/06/06	0.877	1.04	--	--	--	--	0.0070	--
Potassium, unfiltered, in milligrams per liter	2011	2	0	0.904	1.61	2.31	09/29/11	0.904	2.31	--	--	--	--	0.0048	--
Sodium, in milligrams per liter	2006-2010	3	0	2.0	2.2	3.0	09/29/10	2.0	3.0	--	--	.	--	0.0050	--
Sodium, in milligrams per liter	2011	2	0	1.5	2.4	3.3	09/29/11	1.5	3.3	--	--	.	--	0.087	--
Sodium, unfiltered, in milligrams per liter	2006-2010	3	0	2.07	2.17	2.92	09/29/10	2.07	2.92	--	--	--	--	0.0050	--
Sodium, unfiltered, in milligrams per liter	2011	2	0	1.51	2.45	3.40	09/29/11	1.51	3.40	--	--	--	--	0.087	--
Acid neutralizing capacity, unfiltered, in milligrams per liter	2006-2010	2	1	0 *	0 *	0 *	06/06/06	0 *	0 *	--	--	--	--	0.10	--
Alkalinity, water, fixed endpoint, in milligrams per liter	2010	2	1	0 *	0.300	0.600	09/29/10	0 *	0.600	--	--	--	--	0.10	--
Alkalinity, water, fixed endpoint, in milligrams per liter	2011	2	0	0 *	0.050	0.100	09/29/11	0 *	0.100	--	--	--	--	0.10	--
Alkalinity, Gran titration, in milligrams per liter	2010	2	1	-1.50	-0.75	0 *	06/09/10	-1.50	0 *	--	--	--	--	0.10	--
Alkalinity, Gran titration, in milligrams per liter	2011	2	0	-14.5	-9.50	-4.50	06/09/11	-14.5	-4.50	--	--	--	--	--	--
Bicarbonate, Gran titration, in milligrams per liter	2010	2	2	0 *	0 *	0 *	06/09/10	0 *	0 *	--	--	--	--	0.10	--
Bicarbonate, Gran titration, in milligrams per liter	2011	2	0	0 *	0.050	0.100	09/29/11	0 *	0.100	--	--	--	--	0.10	--

Table 4. Summary of measured constituents and properties for Sugarloaf Gulch above Nelson Mine drain tunnel, station 391502106230601

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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
Chloride, in milligrams per liter	2006-2010	3	0	0.25	0.26	0.29	06/06/06	0.25	0.29	250	0	.	--	0.12	L
Chloride, in milligrams per liter	2011-2012	4	0	0.23	0.25	0.26	06/09/11	0.23	0.26	250	0	.	--	0.060	L
Silica, in milligrams per liter	2006-2010	3	0	6.2	14.7	16.8	09/29/10	6.2	16.8	--	--	.	--	0.044	--
Silica, in milligrams per liter	2011	2	0	11.9	19.4	26.9	09/29/11	11.9	26.9	--	--	.	--	0.026	--
Silica, unfiltered, in micrograms per liter	2006-2010	3	0	6.87	14.1	16.6	09/29/10	6.87	16.6	--	--	--	--	0.044	--
Silica, unfiltered, in micrograms per liter	2011	2	0	12.5	20.0	27.5	09/29/11	12.5	27.5	--	--	--	--	0.026	--
Sulfate, in milligrams per liter	2006-2010	3	0	38.6	54.4	56.8	06/09/10	38.6	56.8	250	0	.	--	0.053	L
Sulfate, in milligrams per liter	2011-2012	4	0	56.1	206	291	09/20/12	56.1	291	250	1	.	--	0.090	H
Sulfate, unfiltered, in milligrams per liter	2010	2	0	38.1	46.8	55.5	06/09/10	38.1	55.5	--	--	--	--	0.053	--
Sulfate, unfiltered, in milligrams per liter	2011	2	0	59.3	126	192	09/29/11	59.3	192	--	--	--	--	0.036	--
Dissolved solids, sum of constituents, in milligrams per liter	2006-2010	3	1	0 *	72.5	79.9	06/06/06	0 *	79.9	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	2011	2	0	89.8	191	292	09/29/11	89.8	292	--	--	.	--	--	--
Aluminum, in micrograms per liter	2006-2010	3	0	291	576	826	06/09/10	291	826	199	3	1,393	0	2.0	H
Aluminum, in micrograms per liter	2011	2	0	929	1,579	2,229	09/29/11	929	2,229	199	2	1,393	1	0.53	H
Aluminum, unfiltered, in micrograms per liter	2006-2010	3	0	290	615	801	06/09/10	290	801	199	3	1,393	0	2.0	H
Aluminum, unfiltered, in micrograms per liter	2011	2	0	919	1,636	2,353	09/29/11	919	2,353	199	2	1,393	1	0.53	H
Antimony, in micrograms per liter	2011	1	0	0.069	0.069	0.069	09/29/11	0.069	0.069	5.60	0	--	--	0.018	L
Arsenic, in micrograms per liter	2006-2010	3	0	0.085	0.12	0.16	06/06/06	0.085	0.16	10.0	0	340	0	0.0050	L
Arsenic, in micrograms per liter	2011	2	1	0 *	0.076	0.15	06/09/11	0 *	0.15	10.0	0	340	0	0.12	L
Arsenic, unfiltered, in micrograms per liter	2006-2010	3	0	0.11	0.17	0.21	06/06/06	0.11	0.21	10.0	0	.	--	0.0050	L
Arsenic, unfiltered, in micrograms per liter	2011	2	0	0.54	0.92	1.3	09/29/11	0.54	1.3	10.0	0	.	--	0.12	L
Barium, in micrograms per liter	2006-2010	3	0	30.0	31.8	41.4	09/29/10	30.0	41.4	1,000	0	.	--	0.020	L
Barium, in micrograms per liter	2011	2	0	23.1	37.7	52.3	09/29/11	23.1	52.3	1,000	0	.	--	0.073	L
Barium, unfiltered, in micrograms per liter	2006-2010	3	0	30.4	33.0	40.4	09/29/10	30.4	40.4	--	--	.	--	0.020	--
Barium, unfiltered, in micrograms per liter	2011	2	0	23.5	39.1	54.8	09/29/11	23.5	54.8	--	--	.	--	0.073	--
Cadmium, in micrograms per liter	2006-2010	3	0	10.3	21.8	23.5	06/06/06	10.3	23.5	0.26	3	0.96	3	0.024	H
Cadmium, in micrograms per liter	2011	2	0	38.5	39.2	39.9	09/29/11	38.5	39.9	0.26	2	0.96	2	0.066	H
Cadmium, unfiltered, in micrograms per liter	2006-2010	3	0	10.3	21.6	24.6	06/06/06	10.3	24.6	--	--	.	--	0.024	--
Cadmium, unfiltered, in micrograms per liter	2011	2	0	38.8	39.1	39.5	09/29/11	38.8	39.5	--	--	.	--	0.066	--
Chromium, in micrograms per liter	2006-2010	3	0	0.053	0.10	0.74	06/06/06	0.053	0.74	--	--	50.0	0	0.0030	--
Chromium, in micrograms per liter	2011	2	0	0.17	0.20	0.22	06/09/11	0.17	0.22	--	--	50.0	0	0.012	--
Chromium, unfiltered, in micrograms per liter	2006-2010	3	0	0.11	0.19	0.68	06/06/06	0.11	0.68	--	--	.	--	0.0030	--
Chromium, unfiltered, in micrograms per liter	2011	2	0	0.17	0.19	0.22	09/29/11	0.17	0.22	--	--	.	--	0.012	--
Cobalt, in micrograms per liter	2006-2010	3	0	0.20	0.48	0.52	06/09/10	0.20	0.52	--	--	.	--	0.037	--
Cobalt, in micrograms per liter	2011	2	0	1.4	3.9	6.3	09/29/11	1.4	6.3	--	--	.	--	0.0034	--

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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
Cobalt, unfiltered, in micrograms per liter	2006-2010	3	0	0.20	0.52	0.53	06/06/06	0.20	0.53	--	--	.	--	0.037	--
Cobalt, unfiltered, in micrograms per liter	2011	2	0	1.3	3.7	6.1	09/29/11	1.3	6.1	--	--	.	--	0.0034	--
Copper, in micrograms per liter	2006-2010	3	0	4.2	10.0	11.4	06/09/10	4.2	11.4	5.1	2	7.2	2	0.0020	H
Copper, in micrograms per liter	2011	2	0	14.3	15.4	16.5	09/29/11	14.3	16.5	5.1	2	7.2	2	0.095	H
Copper, unfiltered, in micrograms per liter	2006-2010	3	0	4.5	10.7	11.1	06/06/06	4.5	11.1	--	--	.	--	0.0020	--
Copper, unfiltered, in micrograms per liter	2011	2	0	15.5	16.1	16.7	09/29/11	15.5	16.7	--	--	.	--	0.095	--
Iron, in micrograms per liter	2006-2010	3	0	30.0	58.1	85.7	06/06/06	30.0	85.7	300	0	.	--	2.0	L
Iron, in micrograms per liter	2011	2	0	666	1,109	1,551	09/29/11	666	1,551	300	2	.	--	1.4	H
Iron, unfiltered, in micrograms per liter	2006-2010	3	0	33.0	66.0	119	06/06/06	33.0	119	1,000	0	.	--	2.0	L
Iron, unfiltered, in micrograms per liter	2011	2	0	758	1,508	2,258	09/29/11	758	2,258	1,000	1	.	--	1.4	H
Lead, in micrograms per liter	2006-2010	3	0	5.4	15.7	21.8	06/06/06	5.4	21.8	1.2	3	31.4	0	0.029	H
Lead, in micrograms per liter	2011	2	0	8.0	16.3	24.6	09/29/11	8.0	24.6	1.2	2	31.4	0	0.0039	H
Lead, unfiltered, in micrograms per liter	2006-2010	3	0	6.1	16.5	25.6	06/06/06	6.1	25.6	--	--	.	--	0.029	--
Lead, unfiltered, in micrograms per liter	2011	2	0	12.9	39.5	66.1	09/29/11	12.9	66.1	--	--	.	--	0.0039	--
Lithium, in micrograms per liter	2006-2010	3	0	2.11	2.29	2.58	06/09/10	2.11	2.58	--	--	--	--	0.055	--
Lithium, in micrograms per liter	2011	2	0	2.18	3.27	4.37	09/29/11	2.18	4.37	--	--	--	--	0.49	--
Lithium, unfiltered, in micrograms per liter	2006-2010	3	0	2.12	2.50	2.63	06/06/06	2.12	2.63	--	--	--	--	0.055	--
Lithium, unfiltered, in micrograms per liter	2011	2	0	2.23	3.38	4.52	09/29/11	2.23	4.52	--	--	--	--	0.49	--
Manganese, in micrograms per liter	2006-2010	3	0	599	1,558	2,736	06/09/10	599	2,736	50.0	3	.	--	1.0	H
Manganese, in micrograms per liter	2011	2	0	3,722	6,526	9,330	09/29/11	3,722	9,330	50.0	2	.	--	0.58	H
Manganese, unfiltered, in micrograms per liter	2006-2010	3	0	594	1,823	2,676	06/09/10	594	2,676	--	--	.	--	1.0	--
Manganese, unfiltered, in micrograms per liter	2011	2	0	3,770	6,559	9,348	09/29/11	3,770	9,348	--	--	.	--	0.58	--
Molybdenum, in micrograms per liter	2006-2010	3	3	0 *	0 *	0 *	06/06/06	0 *	0 *	210	0	--	--	0.57	L
Molybdenum, in micrograms per liter	2011	2	2	0 *	0 *	0 *	06/09/11	0 *	0 *	210	0	--	--	0.053	L
Molybdenum, unfiltered, in micrograms per liter	2006-2010	3	3	0 *	0 *	0 *	06/06/06	0 *	0 *	--	--	--	--	0.57	--
Molybdenum, unfiltered, in micrograms per liter	2011	2	2	0 *	0 *	0 *	06/09/11	0 *	0 *	--	--	--	--	0.053	--
Nickel, in micrograms per liter	2006-2010	3	0	2.9	3.9	5.3	06/09/10	2.9	5.3	29.9	0	269	0	0.070	L
Nickel, in micrograms per liter	2011	2	0	5.7	13.7	21.7	09/29/11	5.7	21.7	29.9	0	269	0	0.019	M
Nickel, unfiltered, in micrograms per liter	2006-2010	3	0	2.8	4.3	5.2	06/09/10	2.8	5.2	--	--	.	--	0.070	--
Nickel, unfiltered, in micrograms per liter	2011	2	0	5.6	13.6	21.5	09/29/11	5.6	21.5	--	--	.	--	0.019	--
Silver, in micrograms per liter	2006-2010	3	0	0.13	1.1	1.1	06/06/06	0.13	1.1	0.024	3	0.66	2	0.0010	H
Silver, in micrograms per liter	2011	2	0	0.17	0.76	1.4	06/09/11	0.17	1.4	0.024	2	0.66	1	0.048	H
Silver, unfiltered, in micrograms per liter	2006-2010	3	0	0.42	1.3	1.6	06/06/06	0.42	1.6	--	--	.	--	0.0010	--
Silver, unfiltered, in micrograms per liter	2011	2	0	2.2	3.3	4.5	09/29/11	2.2	4.5	--	--	.	--	0.048	--
Strontium, in micrograms per liter	2006-2010	3	0	44.8	48.0	57.8	06/09/10	44.8	57.8	--	--	--	--	0.0020	--

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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
Strontium, in micrograms per liter	2011	2	0	51.5	124	196	09/29/11	51.5	196	--	--	--	--	0.45	--
Strontium, unfiltered, in micrograms per liter	2006-2010	3	0	44.2	50.8	57.4	06/09/10	44.2	57.4	--	--	--	--	0.0020	--
Strontium, unfiltered, in micrograms per liter	2011	2	0	50.0	124	198	09/29/11	50.0	198	--	--	--	--	0.45	--
Vanadium, in micrograms per liter	2006-2010	3	1	0 *	0.0050	0.024	06/06/06	0 *	0.024	--	--	--	--	0.0010	--
Vanadium, in micrograms per liter	2011	2	1	0 *	0.013	0.025	06/09/11	0 *	0.025	--	--	--	--	0.12	--
Vanadium, unfiltered, in micrograms per liter	2006-2010	3	0	0.018	0.023	0.026	06/06/06	0.018	0.026	--	--	--	--	0.0010	--
Vanadium, unfiltered, in micrograms per liter	2011	2	1	0 *	0.034	0.068	06/09/11	0 *	0.068	--	--	--	--	0.12	--
Zinc, in micrograms per liter	2006-2010	3	0	1,967	3,653	3,778	06/09/10	1,967	3,778	71.1	3	82.0	3	0.64	H
Zinc, in micrograms per liter	2011	2	0	5,090	7,300	9,511	09/29/11	5,090	9,511	71.1	2	82.0	2	0.26	H
Zinc, unfiltered, in micrograms per liter	2006-2010	3	0	1,949	3,565	3,690	06/09/10	1,949	3,690	--	--	.	--	0.64	--
Zinc, unfiltered, in micrograms per liter	2011	2	0	4,923	7,190	9,456	09/29/11	4,923	9,456	--	--	.	--	0.26	--
Uranium (natural), in micrograms per liter	2006-2010	3	0	0.41	0.83	0.85	06/09/10	0.41	0.85	30.0	0	.	--	0.29	L
Uranium (natural), in micrograms per liter	2011	2	0	1.6	2.2	2.9	09/29/11	1.6	2.9	30.0	0	.	--	0.0087	L
Uranium, unfiltered, in micrograms per liter	2006-2010	3	0	0.440	0.863	0.891	06/09/10	0.440	0.891	--	--	--	--	0.29	--
Uranium, unfiltered, in micrograms per liter	2011	2	0	1.71	2.33	2.96	09/29/11	1.71	2.96	--	--	--	--	0.0087	--