

Screening Values used in Evaluation of San Juan River Water Quality Samples

[Screening values](#) are taken from Agency for Toxic Substance and Disease Registry (ATSDR) comparison values (CVs) for drinking water when available. When ATSDR values were not available, [EPA Regional Screening Levels \(RSLs\)](#) for residential tap water were used. Total metal data was used for assessment of human-health based effects. Agricultural Screening Values are derived from National Academy of Science (NAS) Water Quality Criteria, 1972 (the Blue Book). Those guidelines are reprinted in [EPA's Guidelines for the Reuse of Waters for Irrigation](#). Dissolved metal values were used for the assessment of agricultural use waters. Contaminants that do not exceed screening values are not considered to pose a risk of adverse health effects. Estimated results values below the laboratory's reporting limit are evaluated in this analysis. These results generally show low level concentrations and do not significantly affect the analysis outcome.

Analyte	CAS #	Units	Drinking Water CV (ppb)			Irrigation Waters (ug/L) [NAS, 1972]		Utah WQ Standards for San Juan River [Dissolved metals]							
			Health-Based Comparison Value for Water Ingestion (CV) [Total Metals]	CV Type and Source	Livestock Water (ug/L)	Long-Term	Short-Term	1C (Domestic)	3B (warm water fish) [1-hour]	3B (warm water fish) [4-day]	4 (agriculture)				
Hardness	-	mg/L			180 mg/L (UA)										Hardness
Aluminum	7429-90-5	µg/L	10,000	Child Intermediate EMEG	5,000 (NAS)	5,000	20,000			750	87				Aluminum
Antimony	7440-36-0	µg/L	4	Child RMEG	No Data Available	No Data Available	No Data Available								Antimony
Arsenic	7440-38-2	µg/L	3	Child RMEG & Chronic EMEG	200 (NAS)	100	2,000	10	340	150	100				Arsenic
Barium	7440-39-3	µg/L	2,000	Child Intermediate EMEG	No Data Available	No Data Available	No Data Available	1000							Barium
Beryllium	7440-41-7	µg/L	20	Child RMEG & Chronic EMEG	No Data Available	No Data Available	No Data Available	<4							Beryllium
Cadmium	7440-43-9	µg/L	5	Child Intermediate EMEG	50 (NAS)	10	50	10	2	0.25	10				Cadmium
Calcium	7440-70-2	µg/L	-	No CVs available	500,000 (UA)	No Data Available	No Data Available								Calcium
Chromium	7440-47-3	µg/L	60	Child RSL, non-cancer, Cr(VI)	1,000 (NAS)	100	1,000	50	16 (VI);	11 (VI);				100	Chromium
Cobalt	7440-48-4	µg/L	100	Child Intermediate EMEG	1,000 (NAS)	50	5,000								Cobalt
Copper	7440-50-8	µg/L	100	Child Intermediate EMEG	500 (NAS)	200	5,000		13	9	200				Copper
Iron	7439-89-6	µg/L	14,000	Child RSL, non-cancer	Limit Not Considered Necessary (NAS)	5,000	20,000		1000	1000					Iron
Lead	7439-92-1	µg/L	15	Child non-carcinogenic RSL	100 (NAS)	5,000	10,000	15	65	2.5	100				Lead
Magnesium	7439-95-4	µg/L	-	No CVs available	250,000 (UA)	No Data Available	No Data Available								Magnesium
Manganese	7439-96-5	µg/L	500	Child RMEG	Limit Not Considered Necessary (NAS)	200	10,000								Manganese
Molybdenum	7439-98-7	µg/L	50	Child RMEG	No Data Available	10	50								Molybdenum
Nickel	7440-02-0	µg/L	200	Child RMEG	No Data Available	200	2,000		468	52					Nickel
Potassium	7440-22-4	µg/L	-	No CVs available	No Data Available	No Data Available	No Data Available								Potassium
Selenium	7782-49-2	µg/L	50	Child RMEG	50 (NAS)	20	20	50	18.4	4.6	50				Selenium
Silver	7440-22-4	µg/L	50	Child RMEG	No Data Available	No Data Available	No Data Available	50	1.6	-					Silver
Sodium	7440-23-5	µg/L	-	No CVs available	1,000,000 (UA)	No Data Available	No Data Available								Sodium
Thallium	7440-28-0	µg/L	0.2	Child non-carcinogenic RSL	No Data Available	No Data Available	No Data Available								Thallium
Vanadium	7440-62-2	µg/L	100	Child Intermediate EMEG	100 (NAS)	100	1,000								Vanadium
Zinc	7440-66-6	µg/L	3,000	Child Intermediate EMEG	25,000 (NAS)	2,000	10,000		120	120					Zinc
Mercury	7439-97-6	µg/L	0.63	Child non-carcinogenic RSL, elemental Hg, µg/L	10 (NAS)	No Data Available	No Data Available	2	-	0.012					Mercury
TDS		mg/L			1200 (Utah)	500,000-1,000,000 (NAS)									
pH					6.5-9 (Utah)	4.5-9 (NAS)									

RMEG: ATSDR Reference Dose Media Evaluation Guide
 EMEG: ATSDR Environmental Media Evaluation Guide
 RSL: EPA Regional Screening Level

Comparison of San Juan River Raw Water Data with Finished Drinking Water Screening Values - Total Metals

		No Exceedence		Above Screening Level		Prior to Plume Arrival		Estimated Plume Arrival		Post Plume Arrival																	
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		Health Based Comparison Values for Water Ingestion		10,000	4	3	2,000	20	5		60	100	14,000	15		500	0.63	50	200		50			0.2	100	3,000	
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4954000	San Juan R @ US160 Xing in CO	8/8/2015	1:23 PM	47,400	0.27	12.5	1,300	3.42	1.27	336	23.9	22.8	41.4	24,800	44.5	56.3	2320	0.077	0.76	40.5	12.2	1.09	0.27	38.6	0.41	61.2	147
		8/9/2015	12:02 PM	33,900	0.499	12.3	702	2.62	0.907	108	17.4	16.8	59.3	29,400	151	20.3	1100	0.07	1.37	23	9.04	1.07	1.09	29.8	0.38	50.5	160
		8/9/2015	3:05 PM	26,700	0.573	13.5	606	2.08	0.734	92.8	14.2	13.5	63	28,600	185	17.2	942	0.063	1.58	18.2	7.53	0.97	1.34	27	0.3	41.6	172
		8/9/2015	6:00 PM	24,600	0.502	10	532	1.8	0.68	86.2	13.7	12.4	47.6	24,100	111	15.8	870	0.045	1.33	16.8	7.04	0.73	0.79	26.1	0.25	37.8	138
		8/9/2015	9:02 PM	31,000	0.416	9.59	554	2.25	0.632	78.8	15.5	14.7	49.7	26,500	83.5	15.3	887	0.048	1.01	18.4	7.18	0.7	0.57	29.5	0.31	41.5	137
		8/10/2015	9:11 AM	39,900	0.163	11	1,730	3.97	1.15	90.8	21	24.8	69.6	35,400	73.5	20.2	1450	0.115	0.53	29.7	8.24	0.94	0.49	36.6	0.39	48.2	668
		8/10/2015	2:06 PM	43,700	0.19	12.3	889	4.04	0.884	86.7	23.7	25.4	69.7	39,100	69.3	20.1	1390	0.117	0.62	30.8	8.89	0.96	0.42	38.5	0.42	53.4	897
		8/11/2015	8:50 AM	77,000	0.216	19.9	1,230	6.66	1.2	109	29.5	37	104	54,800	82.2	24.9	1930	0.187	0.56	39.4	11.8	1.35	0.57	42.9	0.87	69.4	223
		8/11/2015	1:17 PM	56,900	0.181	14.2	971	4.97	0.916	95	21.8	27.3	76.7	40,300	62.6	20	1440	0.13	0.61	29.6	9.65	1.08	0.42	37.4	0.68	51.8	159
		8/12/2015	9:50 AM	31,100	0.23	11.1	766	3.16	0.905	164	16.1	18.6	43.7	22,600	47.4	24.7	1250	0.098	0.77	28.9	7.9	1.04	0.31	32.7	0.46	43.7	131
		8/12/2015	2:04 PM	28,500	0.252	9.21	683	2.52	0.641	146	13.2	14.5	34.3	18,100	35.8	24.5	1130	0.058	0.48	22	7.37	0.75	0.21	28.7	0.28	41.4	96.2
		8/13/2015	10:01 AM	38,700	0.156	12	1,110	5.62	0.941	124	14.9	28.9	79.3	31,100	66.5	22.5	1670	0.153	0.53	28.9	8.54	1.2	0.4	45	0.58	51	177
		8/14/2015	2:33 PM	44,300	0.413	12.5	918	4.89	0.984	114	23.7	27.1	70.5	39,100	64.3	22.4	1360	0.148	0.77	34.5	10.4	1.32	0.38	54.8	0.71	60	197
		8/15/2015	12:04 PM	14,200	0.279	4.7	262	1.08	0.366	68.1	8.75	6.18	18.2	12,300	17.4	12.7	368	0.03	1.13	8.78	5.16	0.63	0.14	27.7	0.19	25.7	58.9
		8/16/2015	9:15 AM	9,500	0.837	4.89	358	0.94	0.302	78	6.21	5.69	14.9	10,000	15.8	13.3	338	0.028	1.23	10.3	5.78	0.86	0.35	31.2	0.23	16.1	215
		8/18/2015	9:56 AM	3,640	0.201	2	121	0.24	ND	60.4	2.09	1.59	6.24	3,300	4.3	10.9	126	0.01	1.37	2.63	3.06	0.64	0.04	29.8	ND	6.8	15.4
		8/19/2015	9:30 AM	4,070	0.182	2.14	122	0.24	ND	62.2	2.53	1.78	6.24	3,520	4.16	10.5	127	ND	1.37	2.84	3.07	0.64	0.04	29.2	ND	7.76	18
		8/20/2015	9:44 AM	3,650	0.164	2.02	119	0.27	ND	64.3	2.28	1.72	6.18	3,290	3.84	11	119	ND	1.41	2.71	3.15	0.55	0.04	32.5	ND	6.98	15.7
4953990	San Juan R @ Town of Montezuma	8/8/2015	2:54 PM	67,300	0.395	20.2	1,590	6.36	2.49	390	38.8	41.1	82.4	50,400	91.5	59.1	3010	0.222	1.3	75.8	17.7	1.93	0.66	51.7	1.18	82.8	286
		8/10/2015	10:13 AM	32,300	0.216	11.5	1,960	2.72	0.707	93.7	17.3	18.3	56.4	29,700	79.3	20.1	1130	0.072	0.83	23.5	7.45	0.9	0.52	34.6	0.28	43.8	821
		8/10/2015	2:58 PM	39,100	0.228	11.8	1,700	3.71	0.881	97.1	22.1	23.2	67.3	35,800	75.8	22.5	1400	0.098	0.93	29.6	8.49	1.08	0.75	34.9	0.44	49	658
		8/11/2015	9:44 AM	52,800	0.295	12.6	918	4.27	0.998	99.7	23.1	25.1	67.9	40,200	62.9	22.5	1410	0.122	0.75	29.3	9.63	1.2	0.6	36.9	0.67	55.2	166
		8/11/2015	2:20 PM	54,700	0.232	15	1,060	5.16	1.04	102	24.2	29.1	80.3	44,700	70.2	24	1570	0.137	0.65	32.4	9.47	1.23	0.45	38.6	0.73	58.4	183
		8/12/2015	10:37 AM	31,500	0.247	10.2	720	3.62	0.855	108	14.7	19.5	51.7	24,400	49.1	18.4	1190	0.078	0.45	22.7	7.04	1.06	0.48	33	0.46	38.6	131
		8/12/2015	2:57 PM	35,000	0.272	10.7	725	3.97	0.916	130	17	19.5	51.4	26,500	54.1	20.5	1120	0.112	0.4	27.7	8.29	1.12	0.31	34.5	0.56	40.8	144
		8/13/2015	4:46 PM	23,700	0.156	10.1	722	3.57	0.708	127	9.33	17.3	47.9	17,800	44.3	20.8	1270	0.103	0.68	19.3	6.73	0.95	0.31	34.2	0.32	34.2	109
		8/14/2015	9:55 AM	62,000	0.443	16	1,400	7.03	1.41	153	29.9	39.8	106	54,300	90.8	32.9	2060	0.247	0.72	48.4	12.7	1.49	0.5	59.5	1.04	76.4	265
		8/15/2015	11:31 AM	29,200	0.329	8.5	566	2.65	0.806	90.2	15.5	15	39.3	24,900	36.5	19.7	862	0.075	1.06	18.7	7.88	0.93	0.25	39.4	0.4	43.3	114
		8/16/2015	10:02 AM	13,600	0.232	5.56	517	1.15	0.305	78.8	7.56	7.12	21.1	13,200	19.5	14.6	435	0.033	1.04	10.1	7.25	0.85	0.16	39.3	0.22	21.6	238
		8/17/2015	4:07 PM	4,160	0.35	2.63	141	0.41	0.254	65.6	2.42	1.87	6.89	3,510	6.05	13.5	150	0.012	1.5	3.06	3.63	0.66	0.11	31	0.14	8.04	20.2
		8/18/2015	8:41 AM	4,450	0.783	2.73	131	0.39	ND	71.3	2.82	2.07	7.13	3,920	5.35	14.4	162	0.013	1.73	3.39	3.41	0.73	0.12	32.2	0.11	9.21	20.5
		8/19/2015	8:15 AM	4,330	0.197	2.33	123	0.26	ND	71.4	2.38	1.64	5.96	3,430	4.15	14.5	122	ND	1.62	2.78	3.31	0.6	0.06	32.8	0.04	8.19	15.5
		8/20/2015	8:59 AM	3,650	0.255	2.02	115	0.24	ND	69.1	2.29	1.4	5.58	3,120	3.6	14.8	109	ND	1.56	2.46	3.25	0.6	0.05	35.2	0.03	7.21	13.9

These data are provisional and subject to change and are undergoing DWQ's quality assurance and quality control procedures. Data are released in the interest of providing timely data to the public. Neither DWQ nor the State of Utah may be held liable for any damages resulting from its use.

		No Exceedence		Above Screening Level		Prior to Plume Arrival				Estimated Plume Arrival					Post Plume Arrival												
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		Health Based Comparison Values for Water Ingestion		10,000	4	3	2,000	20	5		60	100	14,000	15		500	0.63	50	200		50			0.2	100	3,000	
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
4953250	San Juan R @ Sand Island	8/8/2015	4:19 PM	55,700	0.436	15.9	1,090	5.21	1.99	252	32.4	34.3	80.8	47,800	74.7	33.8	1700	0.158	1.75	65.8	13.3	2.14	0.63	58.8	1.29	64.7	242
		8/10/2015	11:15 AM	27,000	0.3	13.2	1,530	2.3	0.788	104	15.9	15.6	60	28,500	140	21.2	1090	0.065	1.35	22.1	7.83	1	1.22	30.9	0.26	44.3	664
		8/10/2015	3:58 PM	28,700	0.293	10.7	726	2.61	0.713	99.9	16.1	17.3	54.7	27,700	84.7	20.4	1170	0.073	0.88	22.3	7.29	0.89	0.53	33.2	0.25	40.9	960
		8/11/2015	10:53 AM	47,800	0.218	11.5	913	3.87	1.01	98.9	21.7	22.6	61.6	37,000	63.5	22.2	1310	0.113	0.71	27.7	9.34	0.88	0.44	36.4	0.58	52.7	167
		8/11/2015	3:01 PM	48,700	0.272	12	900	4.23	1.04	102	21	23.6	64.2	36,800	63.4	22.4	1400	0.115	0.86	28	9.46	1.1	0.44	38.2	0.62	51.5	163
		8/12/2015	11:12 AM	45,400	0.202	14.9	971	5.16	0.94	109	20	27.9	76.7	34,600	67.4	21.9	1670	0.128	0.34	30.3	8.43	1.1	0.38	38.4	0.57	51.4	176
		8/12/2015	5:06 PM	30,600	0.259	10.3	718	3.61	0.712	90.9	13.6	19.2	53.4	23,700	49.1	17.3	1190	0.08	0.52	21.7	6.84	0.92	0.49	33.2	0.41	38	126
		8/13/2015	11:28 AM	19,300	0.215	8.77	661	2.52	0.744	168	8.79	13.6	33.6	12,900	35.6	22.8	1190	0.06	0.86	18.8	6.83	1.11	0.45	31.6	0.29	32.9	92.7
		8/14/2015	11:02 AM	66,300	0.545	16.8	1,460	7.48	1.4	148	29.8	41.8	116	58,200	96	35.6	2160	0.27	0.62	49.2	12.5	1.56	0.57	55.7	1.1	77.4	288
		8/15/2015	10:30 AM	37,600	0.394	11.2	826	4.1	0.984	108	20.7	22.2	57.6	32,300	54	23.1	1230	0.163	1.09	27.8	9.22	1.36	0.51	51	0.63	53.5	160
		8/16/2015	11:06 AM	24,600	0.279	7.87	1,360	2.25	0.528	86.1	13.6	12.1	33.8	23,300	31.6	18.8	642	0.063	1.1	18	7.32	1.11	0.55	39.4	0.45	32.5	632
		8/17/2015	3:33 PM	10,200	0.454	5.03	300	0.97	0.286	85	6.25	5.91	17	10,200	17.2	16.7	414	0.03	1.26	10.2	5.05	0.87	0.17	31.8	0.19	17	55.5
		8/18/2015	11:22 AM	7,320	0.765	3.34	184	0.54	ND	78.4	4.17	3.19	10.1	6,240	8.24	15.5	239	0.013	1.58	5.22	4.23	0.72	0.06	32.4	0.04	13.1	32.3
8/19/2015	12:33 PM	5,980	0.28	2.64	159	0.38	ND	71.2	3.42	2.38	7.81	4,810	6.05	15.1	166	ND	1.65	3.74	3.78	0.63	0.15	33.2	0.15	10.4	21.2		
8/20/2015	7:21 AM	5,770	0.564	2.87	167	0.36	ND	71.2	3.19	2.38	7.7	4,700	5.7	14.8	174	ND	1.63	3.89	3.71	0.68	0.13	33.4	0.18	10.5	21.6		
4953000	San Juan R @ Mexican Hat US163 Xing	8/8/2015	5:40 PM	63,400	1.31	16.3	1,540	7.23	1.5	167	29.4	41.5	103	51,900	86.7	30.6	2800	0.18	1.3	47.8	14.4	1.43	0.56	63.9	0.84	70.5	261
		8/10/2015	11:53 AM	90,800	0.171	20.6	2,300	7.61	1.53	314	43.1	40.2	72.8	43,400	82.1	57	3230	0.142	0.65	70.9	19.7	1.37	0.4	46.1	0.62	80	843
		8/10/2015	4:44 PM	80,600	0.316	22.7	1,910	6.12	1.27	254	36.8	32.8	69.8	38,100	171	49.4	2430	0.133	0.67	58.4	18.1	1.28	1.1	52.6	0.44	83.3	815
		8/11/2015	11:31 AM	111,000	0.193	22.2	2,430	8.13	1.39	259	43.5	38.5	74.3	47,300	102	57.4	2710	0.175	0.58	64.6	22.2	1.25	0.59	57.8	0.83	88.4	209
		8/11/2015	3:43 PM	56,400	0.345	13.3	1,350	5.09	1.09	150	23.5	25.3	61	35,900	75.1	30.1	1660	0.13	0.77	34.2	11.7	0.93	0.48	41.6	0.59	57.2	168
		8/12/2015	12:09 PM	54,700	0.775	17.5	1,350	6.77	1.17	186	23.2	33.2	80.8	37,500	82.9	33.3	2170	0.143	0.31	38.9	10.7	1.22	0.49	44.4	0.6	63.7	190
		8/12/2015	5:50 PM	71,400	0.224	22.7	2,010	8.74	1.55	282	28.5	40.1	82.4	38,600	101	47.9	3070	0.18	0.23	51.7	14	1.53	0.54	55.6	0.63	78.5	210
		8/13/2015	12:05 PM	44,700	1.9	16.5	1,450	5.44	1.25	246	18.3	25	49.5	21,600	62.5	41.9	1840	0.127	0.68	39.2	12.5	1.59	0.52	48.8	0.43	66.1	145
		8/14/2015	11:43 AM	124,000	1.14	37.2	4,320	15.2	3.74	720	51.1	59.6	84.2	46,900	166	105	5630	0.372	0.92	111	30.4	2.41	1.11	78.6	0.99	115	270
		8/15/2015	9:43 AM	63,700	1.16	16.8	1,620	7.29	1.46	207	29.8	35.5	79	45,100	86.7	40.7	2330	0.198	0.96	47.8	14	1.57	0.63	59.6	0.86	75.5	220
		8/16/2015	11:58 AM	34,300	0.18	9.96	892	2.87	0.6	111	17.1	16.3	40.2	25,600	39.4	22.6	976	0.077	0.79	24	10.6	0.97	0.19	47.6	0.42	40.5	294
		8/17/2015	3:04 PM	16,800	0.698	6.85	496	2.07	0.429	92.3	8.24	9.82	24.3	13,500	27.1	18	641	0.063	1.06	14.1	6.41	0.98	0.33	38.4	0.26	26.2	72.6
		8/18/2015	11:55 AM	17,400	1.19	5.37	281	1.19	0.243	86.9	9.97	6.33	16.3	13,000	14.7	18	373	0.025	1.42	12.1	6.27	0.89	0.16	32.8	0.18	25.4	55.4
8/19/2015	1:03 PM	7,110	0.209	3.13	187	0.46	ND	74.5	3.83	2.66	8.51	5,210	7.15	15.2	182	ND	1.49	4.81	4.09	0.69	0.05	33.5	0.05	12	23		
8/20/2015	6:56 AM	5,790	0.198	2.92	161	0.34	ND	73.2	3.09	1.99	6.84	4,330	5.17	14.6	136	ND	1.63	3.24	3.78	0.63	0.05	34.8	0.04	10.4	18.7		
4952940	San Juan R @ Clay Hills	8/13/2015	2:42 PM	42,900	0.144	18.4	1,760	7.39	1.47	355	15.6	32.3	68.8	23,000	83.4	49.7	2960	0.185	0.56	35.7	11.5	1.39	0.49	52	0.41	64.3	162
		8/14/2015	2:33 PM	73,900	0.377	21.7	2,040	7.21	2.22	422	33.8	35.1	59.7	34,700	89.2	63.4	2900	0.168	1.03	62.9	17.3	1.82	0.66	59.7	0.67	84.5	198
		8/15/2015	2:30 PM	154,000	0.281	36.6	4,170	16.6	2.88	960	55.3	63.1	93.2	54,000	175	110	5740	0.33	0.73	110	33	2.38	0.92	82.9	1.01	116	294
		8/16/2015	2:46 PM	91,000	0.175	22	2,250	8.19	1.52	253	40.5	45.4	104	64,500	105	53.5	2850	0.228	0.62	65.8	19.5	1.88	0.48	63.3	1.12	89.8	477
		8/17/2015	1:03 PM	26,200	0.544	9.76	920	3.44	0.737	132	11.3	16.2	39.4	18,300	43.8	24.3	1240	0.098	1.04	20.8	8.96	1.11	0.54	48.6	0.41	40.7	105
		8/18/2015	1:45 PM	29,300	0.307	7.82	570	2.08	0.45	113	15.3	12.6	31	22,200	29.5	21.9	749	0.06	0.68	19.9	8.01	0.85	0.15	36.4	0.3	40	92.6
8/19/2015	3:09 PM	24,000	0.159	7.46	437	1.54	0.361	110	14.2	9.37	23.8	18,600	22.4	20.2	547	0.033	0.98	18.2	7.37	0.75	0.12	34	0.27	34.3	76.9		

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Comparison of San Juan River Raw Water Data with Screening Values for Domestic Source Water - Dissolved Metals

		No Exceedence		Above Screening Level		Prior to Plume Arrival		Estimated Plume Arrival		Post Plume Arrival																	
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc		
		Utah Domestic Source Criteria		10	1,000	4	10		50			15			2			50									
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
4954000	San Juan R @ US160 Xing in CO	8/8/2015	1:23:00 PM	217	0.52	1.34	222	0.04	ND	51.5	ND	0.13	2.24	95.8	ND	7.85	2.94	ND	1.87	ND	2.96	0.72	ND	32.2	ND	4.86	15.3
		8/9/2015	12:02:00 PM	258	0.34	0.63	274	ND	ND	50.6	ND	0.08	2.48	119	ND	6.86	2.69	ND	2.01	ND	2.61	0.56	0.03	28.5	ND	1.76	18.5
		8/9/2015	9:02:00 PM	329	0.35	0.95	341	0.04	ND	46	ND	0.14	3.47	198	0.27	6.3	4.14	ND	1.94	ND	2.38	0.54	ND	30	ND	2.07	15.4
		8/10/2015	9:11:00 AM	172	0.46	0.99	233	ND	ND	44.6	ND	0.07	3.21	103	0.39	6.01	1.64	ND	2.03	ND	2.51	0.58	ND	34.1	ND	1.74	19.7
		8/10/2015	2:06:00 PM	1050	0.71	1.3	220	0.09	ND	44.2	ND	0.41	3.35	732	1.04	6.02	12.8	ND	1.92	0.84	2.72	0.65	0.06	35.1	ND	3.64	18
		8/11/2015	8:50:00 AM	3290	0.36	1.72	451	0.1	ND	39.8	ND	0.49	4.85	1520	1.1	5.05	19	0.02	1.65	1.19	3	0.97	ND	43.7	ND	3.9	19.1
		8/11/2015	1:17:00 PM	720	0.05	1.33	334	ND	ND	41.7	ND	0.16	3.03	366	0.27	5.11	5.1	ND	1.58	ND	2.91	0.76	ND	37	ND	2.46	14.9
		8/12/2015	9:50:00 AM	104	0.59	0.88	178	ND	ND	52.1	ND	0.06	2.39	ND	ND	7.2	ND	ND	1.47	ND	2.79	0.78	0.03	30.3	ND	1.9	14.8
		8/12/2015	2:04:00 PM	155	0.55	1.21	151	ND	ND	47.9	ND	0.05	2.61	ND	ND	6.97	1.82	ND	1.48	ND	2.74	0.73	ND	27.3	ND	2.87	16.5
		8/13/2015	10:01:00 AM	257	0.16	1.25	213	0.03	ND	48.3	ND	0.12	3.67	148	0.37	6.48	3.16	ND	1.89	ND	2.87	0.86	ND	42.5	ND	2.1	21.9
		8/14/2015	2:33:00 PM	64.8	0.42	1.7	72	0.04	ND	53.4	ND	0.13	3.86	ND	ND	6.61	1.8	ND	3.65	3.14	3.66	1.1	ND	52.4	0.04	4.11	ND
		8/15/2015	12:04:00 PM	47.5	0.45	1.36	65	ND	ND	52.8	ND	0.05	1.35	ND	ND	7.91	ND	ND	2.25	ND	2.61	0.61	ND	25.9	ND	2.61	ND
		8/16/2015	9:15:00 AM	54.4	1.12	0.88	179	0.04	ND	53.9	ND	ND	2.91	ND	ND	8.18	ND	ND	1.72	ND	2.54	0.6	0.19	26.1	ND	1.92	12.6
		8/18/2015	9:56:00 AM	23.9	0.69	1.31	148	ND	ND	57.5	ND	0.09	2.27	ND	0.29	9.82	ND	ND	1.74	ND	2.5	0.59	0.04	33.4	ND	1.88	12.3
8/19/2015	9:30:00 AM	ND	0.68	1.34	106	ND	ND	57.1	ND	0.07	1.7	ND	ND	9.98	ND	ND	1.72	ND	2.54	0.54	0.03	34.1	ND	1.91	8.44		
8/20/2015	9:44:00 AM	28.4	0.76	1.32	132	ND	ND	57	ND	0.08	1.85	ND	ND	9.55	ND	ND	1.76	ND	2.44	0.63	0.1	33.8	0.04	1.93	8.1		
4953990	San Juan R @ Town of Montezuma	8/8/2015	2:54:00 PM	136	0.75	1.06	223	0.04	ND	71.5	ND	0.13	2.72	ND	ND	9.92	ND	2.62	0.8	3.84	1.11	0.04	43.5	ND	2.54	21	
		8/10/2015	10:13:00 AM	218	0.66	0.94	262	ND	ND	49.8	ND	0.08	3.24	144	0.46	7.7	3.22	ND	2.03	ND	2.69	0.57	0.05	32.1	ND	2.13	17.3
		8/10/2015	2:58:00 PM	94.5	1.31	0.93	200	0.03	ND	48.6	ND	0.06	2.48	ND	0.3	7.35	ND	ND	2.32	ND	2.59	0.61	0.25	31.8	ND	1.96	14.6
		8/11/2015	9:44:00 AM	462	0.57	1.17	314	ND	ND	44.6	ND	0.13	2.66	227	ND	6.49	3.31	ND	1.72	ND	2.64	0.68	0.03	37.1	ND	2.21	12.9
		8/11/2015	2:20:00 PM	1400	0.14	1.25	298	0.04	ND	44.8	ND	0.24	3.47	668	0.49	6.57	9.99	ND	1.72	0.95	2.96	0.74	ND	38.3	ND	2.73	14.3
		8/12/2015	10:37:00 AM	67.5	0.8	1.1	202	0.03	ND	48.3	ND	ND	2.49	ND	ND	7.23	ND	ND	1.66	ND	2.67	0.8	0.04	31.9	ND	1.68	13.5
		8/12/2015	2:57:00 PM	375	0.82	0.91	176	ND	ND	48.9	ND	0.09	4.34	296	ND	7.5	2.28	ND	1.64	ND	2.84	0.72	0.03	33.8	ND	1.99	15.9
		8/13/2015	4:46:00 PM	330	1.88	1.28	240	0.07	ND	49.4	ND	0.18	3.75	192	ND	8.08	5.3	ND	1.91	0.98	2.62	0.98	0.24	32.9	0.03	3.12	32.7
		8/14/2015	9:55:00 AM	24.8	0.58	1.27	85	0.04	ND	55.1	ND	0.15	3.79	ND	ND	7.81	ND	ND	2.84	1.76	3.51	0.99	0.04	53	0.03	3.07	ND
		8/15/2015	11:31:00 AM	68.1	0.64	1.58	74	0.04	ND	55	ND	0.24	4.38	ND	ND	8.57	3.36	ND	2.43	1.09	3.16	0.89	0.07	35.8	ND	3.54	ND
		8/16/2015	10:02:00 AM	61.8	0.84	1.17	145	0.06	ND	57.5	ND	0.09	3.01	ND	ND	9.36	ND	ND	1.99	ND	2.96	0.67	0.28	30.3	0.05	2.16	9.78
		8/17/2015	4:07:00 PM	27.3	0.29	1.17	80	ND	ND	60.2	ND	0.14	1.87	ND	ND	11.6	2.4	ND	1.97	ND	2.82	0.63	ND	29.4	ND	2.18	ND
		8/18/2015	8:41:00 AM	24.6	1.02	1.19	197	0.03	ND	62.7	ND	0.1	3.44	ND	0.32	12.7	ND	ND	2.07	ND	2.64	0.63	0.14	35.4	0.08	2.29	14.8
		8/19/2015	8:15:00 AM	ND	0.95	1.22	141	ND	ND	63.1	ND	0.08	1.67	ND	ND	13.7	ND	ND	1.99	ND	2.67	0.65	0.1	37.7	0.03	2.3	9.64
8/20/2015	8:59:00 AM	ND	0.99	1.4	128	ND	ND	62.7	ND	0.07	1.93	ND	ND	13.4	ND	ND	1.8	ND	2.62	0.66	ND	37.5	ND	2.14	6.64		

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		No Exceedence	Above Screening Level	Prior to Plume Arrival				Estimated Plume Arrival						Post Plume Arrival													
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc		
		Utah Domestic Source Criteria		10	1,000	4	10		50				15			2				50							
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
4953250	San Juan R @ Sand Island	8/8/2015	4:19:00 PM	214	1.38	1.03	294	0.06	ND	73.7	ND	0.12	3.86	104	ND	9.24	2.55	ND	3.3	1.01	4.11	1.43	0.12	51.2	ND	2.22	19
		8/10/2015	11:15:00 AM	124	1.24	0.88	192	ND	ND	53.2	ND	0.07	2.07	ND	0.29	8.4	ND	ND	2.38	ND	2.86	0.69	0.25	28.4	ND	1.75	13.7
		8/10/2015	3:58:00 PM	108	0.57	1.07	184	ND	ND	48.4	ND	0.06	1.96	ND	0.32	7.83	ND	ND	2.26	ND	2.62	0.53	ND	30.6	ND	1.89	13.2
		8/11/2015	10:53:00 AM	684	1.18	1.23	278	0.06	ND	45.8	ND	0.17	2.87	328	ND	6.93	4.12	ND	1.92	0.78	2.72	0.69	0.27	36.8	0.03	2.55	13.7
		8/11/2015	3:01:00 PM	158	0.27	1.01	251	ND	ND	45.3	ND	0.09	2.69	89.2	ND	6.65	ND	ND	1.85	ND	2.76	0.67	ND	36.6	ND	2.05	14.9
		8/12/2015	11:12:00 AM	623	1.08	1.41	205	0.05	ND	46.8	ND	0.15	3.44	310	ND	6.98	4.47	ND	1.93	ND	2.91	0.79	0.06	37.8	ND	2.61	14.5
		8/12/2015	5:06:00 PM	605	1.78	1.43	260	0.06	ND	46.6	ND	0.16	2.98	314	ND	7.07	5.16	ND	1.81	0.91	2.79	0.78	0.15	33.5	ND	2.32	13.2
		8/13/2015	11:28:00 AM	509	0.67	1.3	156	0.03	ND	53.6	ND	0.21	3.1	275	ND	8.21	8.9	ND	1.62	ND	3.96	0.68	ND	29.2	ND	3.65	20.4
		8/14/2015	11:02:00 AM	ND	1.03	2.03	79	0.05	ND	53.2	ND	0.13	3.31	ND	ND	8.26	7.02	ND	5.31	2.38	3.27	1.08	0.19	49.5	0.13	5.88	4.87
		8/15/2015	10:30:00 AM	95.2	1.12	1.84	84	0.04	ND	55.7	ND	0.09	2.27	ND	ND	8.4	ND	ND	3.93	0.82	3.46	1.06	0.28	46.7	0.05	3.45	ND
		8/16/2015	11:06:00 AM	290	0.43	1.23	149	0.04	ND	55.8	ND	0.15	3.89	202	ND	10.2	3.94	ND	1.95	ND	2.91	0.71	0.04	36.3	ND	2.04	10.5
		8/17/2015	3:33:00 PM	ND	0.41	1.48	87	ND	ND	62.4	ND	0.17	2.11	ND	ND	11.2	ND	ND	2.67	1.28	3.13	0.63	ND	30	ND	2.75	ND
8/18/2015	11:22:00 AM	ND	0.58	1.46	138	ND	ND	66.4	ND	0.06	2.25	ND	0.38	12.8	1.55	ND	1.94	ND	2.92	0.57	ND	36	ND	2.38	12.3		
8/19/2015	12:33:00 PM	32.9	0.51	1.32	122	ND	ND	64.5	ND	0.07	1.91	ND	ND	12.9	1.79	ND	1.96	ND	2.75	0.56	ND	36.1	ND	2.46	8.68		
8/20/2015	7:21:00 AM	24.4	0.34	1.42	138	ND	ND	61.2	ND	0.08	2.33	ND	ND	12.4	ND	ND	1.86	ND	2.6	0.62	ND	36.1	ND	2.61	9.07		
4953000	San Juan R @ Mexican Hat US163 Xing	8/8/2015	5:40:00 PM	264	1.38	1.57	308	0.04	ND	49.2	ND	0.13	3.95	144	ND	5.75	2.81	ND	3.15	0.89	4.15	0.92	0.1	62.6	ND	3.13	14.2
		8/10/2015	11:53:00 AM	325	0.38	1.94	299	ND	ND	44.6	ND	0.1	2.95	140	0.32	7.84	2.55	ND	2.43	ND	3.41	0.61	0.03	43.6	ND	7.59	17.6
		8/10/2015	4:44:00 PM	149	1.26	1.4	265	ND	ND	44.2	ND	0.08	2.48	ND	0.32	7.87	ND	ND	2.63	ND	3.35	0.75	0.19	41.9	ND	6.67	18.5
		8/11/2015	11:31:00 AM	907	1.42	1.98	391	0.05	ND	37.2	ND	0.18	3.13	382	ND	6.72	4.55	ND	2.46	0.85	3.29	0.78	0.21	51.3	0.04	7.82	12.4
		8/11/2015	3:43:00 PM	1790	1.23	1.59	445	0.07	ND	43.6	ND	0.31	5.28	787	0.57	7.19	11.6	ND	1.98	1.02	3.11	0.82	0.23	41.4	0.03	4.55	17.4
		8/12/2015	12:09:00 PM	125	1.41	1.59	245	0.03	ND	59.8	ND	0.05	3.34	ND	ND	7.86	ND	ND	2.27	ND	3.09	0.92	0.15	42.1	ND	3.07	14.2
		8/12/2015	5:50:00 PM	105	2.23	1.79	185	0.09	ND	48.9	ND	0.07	3.19	ND	ND	7.22	ND	ND	2.64	ND	3.16	1.16	0.26	48.7	ND	4.34	16.1
		8/13/2015	12:05:00 PM	293	1.61	2.06	201	ND	ND	42.6	ND	0.15	3.46	143	ND	7.21	3.54	ND	2.33	0.76	3.3	1.18	0.18	44.4	ND	7.13	19.8
		8/14/2015	11:43:00 AM	120	1.04	2.33	157	0.04	ND	46.2	ND	0.24	5.86	ND	ND	10.5	2.43	ND	5.87	1.75	4.29	1.56	0.15	68	0.18	8.06	ND
		8/15/2015	9:43:00 AM	135	1.04	1.7	117	0.03	ND	53.7	ND	0.58	8.56	ND	ND	9.03	7.42	ND	3.28	1.66	3.62	1.19	0.19	51.9	0.06	5.65	6.18
		8/16/2015	11:58:00 AM	84.3	0.45	1.35	194	0.03	ND	57.7	ND	0.12	3.92	ND	ND	8.96	ND	ND	2.31	ND	3.5	0.84	0.03	40.2	ND	3.31	13.8
		8/17/2015	3:04:00 PM	52.3	0.82	1.55	108	ND	ND	59.3	ND	0.13	2.85	ND	ND	10.3	ND	ND	2.55	1.23	3.42	0.86	0.19	37.3	0.04	3.4	ND
8/18/2015	11:55:00 AM	123	1.59	1.42	258	ND	ND	65.3	ND	0.14	3.05	ND	0.5	11.9	3.96	ND	2.09	ND	3.05	0.6	0.09	35.8	0.04	2.97	20.4		
8/19/2015	1:03:00 PM	83.3	0.43	1.45	219	ND	ND	65.7	ND	0.1	2.86	ND	0.31	12.8	3.51	ND	2.02	ND	2.96	0.68	ND	38.4	ND	3.2	9.29		
8/20/2015	6:56:00 AM	50.4	0.35	1.42	200	ND	ND	66.4	ND	0.07	2.19	ND	ND	12.6	ND	ND	1.98	ND	2.79	0.6	ND	36.9	ND	2.98	8.35		
4952940	San Juan R @ Clay Hills	8/13/2015	2:42:00 PM	643	0.18	1.76	411	0.06	ND	52.3	ND	0.3	4.36	388	0.92	7.5	13.8	ND	2.16	1.09	3.09	0.91	ND	47	ND	4.99	19.2
		8/14/2015	2:33:00 PM	38.5	0.32	1.89	121	ND	ND	51.1	ND	0.13	3.6	ND	ND	8.23	ND	ND	3.3	1.28	3.69	1.13	0.03	49.8	ND	5.38	ND
		8/15/2015	2:30:00 PM	119	0.34	1.75	136	ND	ND	43.1	ND	0.08	2.6	ND	ND	8.99	ND	ND	4.27	0.95	3.62	1.18	ND	66.3	ND	5.48	ND
		8/16/2015	2:46:00 PM	925	0.25	1.71	319	0.05	ND	52.7	ND	0.31	5.26	490	0.46	9.48	9.63	ND	2.78	0.84	4.17	0.91	ND	58.2	ND	5.71	20.6
		8/17/2015	1:03:00 PM	101	0.26	1.63	132	ND	ND	53.2	ND	0.25	4.65	ND	ND	8.79	2.7	ND	2.55	1.36	3.89	0.73	ND	44.5	ND	4.83	ND
		8/18/2015	1:45:00 PM	53.2	0.55	1.56	279	ND	ND	60.6	ND	0.08	2.62	ND	0.3	9.91	ND	ND	2.17	ND	3.49	0.64	0.04	38.3	ND	3.61	20.5
8/19/2015	3:09:00 PM	74.8	0.63	1.57	331	ND	ND	65.7	ND	0.1	2.15	ND	ND	11.4	1.62	ND	2.23	0.9	3.36	0.62	ND	38.1	ND	4.01	15.3		

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Comparison of San Juan River Raw Water Data with Screening Values for Agricultural Uses (Stock watering and Irrigation) – Dissolved Metals

		No Exceedence	Above Screening Level		Prior to Plume Arrival		Estimated Plume Arrival					Post Plume Arrival																		
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Sulfate	Thallium	Total Dissolved Solids	Vanadium	Zinc			
		Livestock Water	5,000		200		50	500	1000	1000	500		100	250,000		10				50		1000000			1200	100	25000			
		Irrigation Water Short-term NAS, 1972	5,000		100		10		100	50	200	5000	5000		200		10	200		20					500000	100	2000			
		Irrigation Water Long-term NAS, 1972	20,000		2000		50		1000	5000	5000	20,000	10,000		10,000		50	2,000		20					500000	1000	10000			
		Utah DWQ Agricultural Use Criteria 4			100		10		100		200		100							50					1200					
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	ug/L			
4954000	San Juan R @ US160 Xing in CO	8/8/2015	1:23:00 PM	217	0.524	1.34	222	0.04	ND	51.5	ND	0.127	2.24	95.8	ND	7.85	2.94	ND	1.87	ND	2.96	0.72	ND	32.2	111	ND	460	4.86	15.3	
		8/9/2015	12:02:00 PM	258	0.341	0.63	274	ND	ND	50.6	ND	0.0817	2.48	119	ND	6.86	2.69	ND	2.01	ND	2.61	0.56	0.0257	28.5	120	ND	400	1.76	18.5	
		8/9/2015	3:05:00 PM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		8/9/2015	6:00:00 PM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		8/9/2015	9:02:00 PM	329	0.347	0.95	341	0.04	ND	46	ND	0.139	3.47	198	0.274	6.3	4.14	ND	1.94	ND	2.38	0.54	ND	30	97.3	ND	430	2.07	15.4	
		8/10/2015	9:11:00 AM	172	0.458	0.99	233	ND	ND	44.6	ND	0.0673	3.21	103	0.391	6.01	1.64	ND	2.03	ND	2.51	0.58	ND	34.1	99.7	ND	380	1.74	19.7	
		8/10/2015	2:06:00 PM	1050	0.711	1.3	220	0.09	ND	44.2	ND	0.407	3.35	732	1.04	6.02	12.8	ND	1.92	0.84	2.72	0.65	0.0586	35.1	102	ND	490	3.64	18	
		8/11/2015	8:50:00 AM	3290	0.364	1.72	451	0.1	ND	39.8	ND	0.488	4.85	1520	1.1	5.05	19	0.015	1.65	1.19	3	0.97	ND	43.7	100	ND	380	3.9	19.1	
		8/11/2015	1:17:00 PM	720	0.0516	1.33	334	ND	ND	41.7	ND	0.155	3.03	366	0.27	5.11	5.1	ND	1.58	ND	2.91	0.76	ND	37	99.2	ND	290	2.46	14.9	
		8/12/2015	9:50:00 AM	104	0.586	0.88	178	ND	ND	52.1	ND	0.0614	2.39	ND	7.2	ND	ND	1.47	ND	2.79	0.78	0.0252	30.3	118	ND	620	1.9	14.8		
		8/12/2015	2:04:00 PM	155	0.548	1.21	151	ND	ND	47.9	ND	0.0478	2.61	ND	ND	6.97	1.82	ND	1.48	ND	2.74	0.73	ND	27.3	102	ND	450	2.87	16.5	
		8/13/2015	10:01:00 AM	257	0.158	1.25	213	0.03	ND	48.3	ND	0.122	3.67	148	0.373	6.48	3.16	ND	1.89	ND	2.87	0.86	ND	42.5	121	ND	450	2.1	21.9	
		8/14/2015	2:33:00 PM	64.8	0.421	1.7	72.3	0.04	ND	53.4	ND	0.133	3.86	ND	ND	6.61	1.8	ND	3.65	3.14	3.66	1.1	ND	52.4	135	0.04	720	4.11	ND	
		8/15/2015	12:04:00 PM	47.5	0.445	1.36	65.2	ND	ND	52.8	ND	0.052	1.35	ND	ND	7.91	ND	ND	2.25	ND	2.61	0.61	ND	25.9	106	ND	580	2.61	ND	
		8/16/2015	9:15:00 AM	54.4	1.12	0.88	179	0.04	ND	53.9	ND	ND	2.91	ND	ND	8.18	ND	ND	1.72	ND	2.54	0.6	0.186	26.1	NS	ND	980	1.92	12.6	
		8/18/2015	9:56:00 AM	23.9	0.689	1.31	148	ND	ND	57.5	ND	0.0869	2.27	ND	0.287	9.82	ND	ND	1.74	ND	2.5	0.59	0.0393	33.4	111	ND	220	1.88	12.3	
		8/19/2015	9:30:00 AM	ND	0.682	1.34	106	ND	ND	57.1	ND	0.0697	1.7	ND	ND	9.98	ND	ND	1.72	ND	2.54	0.54	0.0291	34.1	110	ND	280	1.91	8.44	
8/20/2015	9:44:00 AM	28.4	0.764	1.32	132	ND	ND	57	ND	0.0772	1.85	ND	ND	9.55	ND	ND	1.76	ND	2.44	0.63	0.104	33.8	111	0.04	930	1.93	8.1			
4953990	San Juan R @ Town of Montezuma	8/8/2015	2:54:00 PM	136	0.747	1.06	223	0.04	ND	71.5	ND	0.13	2.72	ND	ND	9.92	ND	2.62	0.8	3.84	1.11	0.0412	43.5	195	ND	610	2.54	21		
		8/10/2015	10:13:00 AM	218	0.66	0.94	262	ND	ND	49.8	ND	0.0764	3.24	144	0.461	7.7	3.22	ND	2.03	ND	2.69	0.57	0.0529	32.1	115	ND	610	2.13	17.3	
		8/10/2015	2:58:00 PM	94.5	1.31	0.93	200	0.03	ND	48.6	ND	0.0595	2.48	ND	0.297	7.35	ND	2.32	ND	2.59	0.61	0.251	31.8	108	ND	460	1.96	14.6		
		8/11/2015	9:44:00 AM	462	0.568	1.17	314	ND	ND	44.6	ND	0.127	2.66	227	ND	6.49	3.31	ND	1.72	ND	2.64	0.68	0.0307	37.1	110	ND	460	2.21	12.9	
		8/11/2015	2:20:00 PM	1400	0.136	1.25	298	0.04	ND	44.8	ND	0.24	3.47	668	0.489	6.57	9.99	ND	1.72	0.95	2.96	0.74	ND	38.3	110	ND	620	2.73	14.3	
		8/12/2015	10:37:00 AM	67.5	0.799	1.1	202	0.03	ND	48.3	ND	2.49	ND	ND	7.23	ND	ND	1.66	ND	2.67	0.8	0.0397	31.9	114	ND	560	1.68	13.5		
		8/12/2015	2:57:00 PM	375	0.822	0.91	176	ND	ND	48.9	ND	0.0898	4.34	296	ND	7.5	2.28	ND	1.64	ND	2.84	0.72	0.0343	33.8	123	ND	460	1.99	15.9	
		8/13/2015	4:46:00 PM	330	1.88	1.28	240	0.07	ND	49.4	ND	0.18	3.75	192	ND	8.08	5.3	ND	1.91	0.98	2.62	0.98	0.235	32.9	125	0.03	370	3.12	32.7	
		8/14/2015	9:55:00 AM	24.8	0.582	1.27	85.1	0.04	ND	55.1	ND	0.146	3.79	ND	7.81	ND	ND	2.84	1.76	3.51	0.99	0.0355	53	154	0.03	480	3.07	ND		
		8/15/2015	11:31:00 AM	68.1	0.642	1.58	73.6	0.04	ND	55	ND	0.244	4.38	ND	ND	8.57	3.36	ND	2.43	1.09	3.16	0.89	0.0705	35.8	139	ND	440	3.54	ND	
		8/16/2015	10:02:00 AM	61.8	0.835	1.17	145	0.06	ND	57.5	ND	0.092	3.01	ND	ND	9.36	ND	ND	1.99	ND	2.96	0.67	0.283	30.3	NS	0.05	1170	2.16	9.78	
		8/17/2015	4:07:00 PM	27.3	0.285	1.17	80.4	ND	ND	60.2	ND	0.137	1.87	ND	ND	11.6	2.4	ND	1.97	ND	2.82	0.63	ND	29.4	NS	ND	790	2.18	ND	
		8/18/2015	8:41:00 AM	24.6	1.02	1.19	197	0.03	ND	62.7	ND	0.0974	3.44	ND	0.316	12.7	ND	ND	2.07	ND	2.64	0.63	0.136	35.4	134	0.08	280	2.29	14.8	
		8/19/2015	8:15:00 AM	ND	0.947	1.22	141	ND	ND	63.1	ND	0.0794	1.67	ND	ND	13.7	ND	ND	1.99	ND	2.67	0.65	0.0967	37.7	139	0.03	310	2.3	9.64	
		8/20/2015	8:59:00 AM	ND	0.994	1.4	128	ND	ND	62.7	ND	0.071	1.93	ND	ND	13.4	ND	ND	1.8	ND	2.62	0.66	ND	37.5	134	ND	370	2.14	6.64	

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No Exceedence		Above Screening Level		Prior to Plume Arrival		Estimated Plume Arrival										Post Plume Arrival														
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Sulfate	Thallium	Total Dissolved Solids	Vanadium	Zinc	
Livestock Water				5,000		200			50	500	1000	1000	500		100	250,000		10				50		1000000			1200	100	25000	
Irrigation Water Short-term NAS, 1972				5,000		100			10		100	50	200	5000	5000		200		10	200		20					500000	100	2000	
Irrigation Water Long-term NAS, 1972				20,000		2000			50		1000	5000	20,000	10,000			10,000		50	2,000		20					500000	1000	10000	
Utah DWQ Agricultural Use Criteria 4						100			10		100		200		100							50						1200		
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	mg/L	mg/L	ug/L	mg/L	ug/L	ug/L	ug/L	
4953250	San Juan R @ Sand Island	8/8/2015	4:19:00 PM	214	1.38	1.03	294	0.06	ND	73.7	ND	0.124	3.86	104	ND	9.24	2.55	ND	3.3	1.01	4.11	1.43	0.123	51.2	226	ND	640	2.22	19	
		8/10/2015	11:15:00 AM	124	1.24	0.88	192	ND	ND	53.2	ND	0.0685	2.07	ND	0.287	8.4	ND	ND	2.38	ND	2.86	0.69	0.252	28.4	124	ND	370	1.75	13.7	
		8/10/2015	3:58:00 PM	108	0.574	1.07	184	ND	ND	48.4	ND	0.0556	1.96	ND	0.315	7.83	ND	ND	2.26	ND	2.67	0.53	ND	30.6	118	ND	490	1.89	13.2	
		8/11/2015	10:53:00 AM	684	1.18	1.23	278	0.06	ND	45.8	ND	0.172	2.87	328	ND	6.93	4.12	ND	1.92	0.78	2.72	0.69	0.269	36.8	114	0.03	390	2.55	13.7	
		8/11/2015	3:01:00 PM	158	0.271	1.01	251	ND	ND	45.3	ND	0.0864	2.69	89.2	ND	6.65	ND	ND	1.85	ND	2.76	0.67	ND	36.6	112	ND	360	2.05	14.9	
		8/12/2015	11:12:00 AM	623	1.08	1.41	205	0.05	ND	46.8	ND	0.154	3.44	310	ND	6.98	4.47	ND	1.93	ND	2.91	0.79	0.0594	37.8	112	ND	450	2.61	14.5	
		8/12/2015	5:06:00 PM	605	1.78	1.43	260	0.06	ND	46.6	ND	0.162	2.98	314	ND	7.07	5.16	ND	1.81	0.91	2.79	0.78	0.152	33.5	109	ND	410	2.32	13.2	
		8/13/2015	11:28:00 AM	509	0.667	1.3	156	0.03	ND	53.6	ND	0.21	3.1	275	ND	8.21	8.9	ND	1.62	ND	2.96	0.68	ND	29.2	121	ND	450	3.65	20.4	
		8/14/2015	11:02:00 AM	ND	1.03	2.03	78.6	0.05	ND	53.2	ND	0.131	3.31	ND	ND	8.26	7.02	ND	5.31	2.38	3.27	1.08	0.193	49.5	146	0.13	630	5.88	4.87	
		8/15/2015	10:30:00 AM	95.2	1.12	1.84	83.5	0.04	ND	55.7	ND	0.085	2.27	ND	ND	8.4	ND	ND	3.93	0.82	3.46	1.06	0.276	46.7	164	0.05	540	3.45	ND	
		8/16/2015	11:06:00 AM	290	0.425	1.23	149	0.04	ND	55.8	ND	0.146	3.89	202	ND	10.2	3.94	ND	1.95	ND	2.91	0.71	0.0426	36.3	NS	NS	ND	1020	2.04	10.5
		8/17/2015	3:33:00 PM	ND	0.408	1.48	87.1	ND	ND	62.4	ND	0.172	2.11	ND	ND	11.2	ND	ND	2.67	1.28	3.13	0.63	ND	30	NS	NS	ND	930	2.75	ND
		8/18/2015	11:22:00 AM	ND	0.583	1.46	138	ND	ND	66.4	ND	0.0643	2.25	ND	0.382	12.8	1.55	ND	1.94	ND	2.92	0.57	ND	36	138	ND	260	2.38	12.3	
		8/19/2015	12:33:00 PM	32.9	0.513	1.32	122	ND	ND	64.5	ND	0.0747	1.91	ND	ND	12.9	1.79	ND	1.96	ND	2.75	0.56	ND	36.1	137	ND	340	2.46	8.68	
		8/20/2015	7:21:00 AM	24.4	0.341	1.42	138	ND	ND	61.2	ND	0.0766	2.33	ND	ND	12.4	ND	ND	1.86	ND	2.6	0.62	ND	36.1	132	ND	330	2.61	9.07	
4953000	San Juan R @ Mexican Hat US163 Xng	8/8/2015	5:40:00 PM	264	1.38	1.57	308	0.04	ND	49.2	ND	0.127	3.95	144	ND	5.75	2.81	ND	3.15	0.89	4.15	0.92	0.0956	62.6	154	ND	730	3.13	14.2	
		8/10/2015	11:53:00 AM	325	0.376	1.94	299	ND	ND	44.6	ND	0.102	2.95	140	0.315	7.84	2.55	ND	2.43	ND	3.41	0.61	0.0297	43.6	126	ND	590	7.59	17.6	
		8/10/2015	4:44:00 PM	149	1.26	1.4	265	ND	ND	44.2	ND	0.0789	2.48	ND	0.315	7.87	ND	ND	2.63	ND	3.35	0.75	0.193	41.9	132	ND	660	6.67	18.5	
		8/11/2015	11:31:00 AM	907	1.42	1.98	391	0.05	ND	37.2	ND	0.179	3.13	382	ND	6.72	4.55	ND	2.46	0.85	3.29	0.78	0.205	51.3	117	0.04	980	7.82	12.4	
		8/11/2015	3:43:00 PM	1790	1.23	1.59	445	0.07	ND	43.6	ND	0.311	5.28	787	0.569	7.19	11.6	ND	1.98	1.02	3.11	0.82	0.23	41.4	129	0.03	600	4.55	17.4	
		8/12/2015	12:09:00 PM	125	1.41	1.59	245	0.03	ND	59.8	ND	0.0512	3.34	ND	ND	7.86	ND	ND	2.27	ND	3.09	0.92	0.151	42.1	157	ND	450	3.07	14.2	
		8/12/2015	5:50:00 PM	105	2.23	1.79	185	0.09	ND	48.9	ND	0.0691	3.19	ND	ND	7.22	ND	ND	2.64	ND	3.16	1.16	0.264	48.7	143	ND	470	4.34	16.1	
		8/13/2015	12:05:00 PM	293	1.61	2.06	201	ND	ND	42.6	ND	0.148	3.46	143	ND	7.21	3.54	ND	2.33	0.76	3.3	1.18	0.182	44.4	135	ND	490	7.13	19.8	
		8/14/2015	11:43:00 AM	120	1.04	2.33	157	0.04	ND	46.2	ND	0.236	5.86	ND	ND	10.5	2.43	ND	5.87	1.75	4.29	1.56	0.152	68	173	0.18	760	8.06	ND	
		8/15/2015	9:43:00 AM	135	1.04	1.7	117	0.03	ND	53.7	ND	0.575	8.56	ND	ND	9.03	7.42	ND	3.28	1.66	3.62	1.19	0.192	51.9	191	0.06	710	5.65	6.18	
		8/16/2015	11:58:00 AM	84.3	0.447	1.35	194	0.03	ND	57.7	ND	0.12	3.92	ND	ND	8.96	ND	ND	2.31	ND	3.5	0.84	0.0298	40.2	NS	NS	1380	3.31	13.8	
		8/17/2015	3:04:00 PM	52.3	0.817	1.55	108	ND	ND	59.3	ND	0.128	2.85	ND	ND	10.3	ND	ND	2.55	1.23	3.42	0.86	0.186	37.3	NS	0.04	880	3.4	ND	
		8/18/2015	11:55:00 AM	123	1.59	1.42	258	ND	ND	65.3	ND	0.137	3.05	ND	0.503	11.9	3.96	ND	2.09	ND	3.05	0.6	0.0934	35.8	143	0.04	320	2.97	20.4	
		8/19/2015	1:03:00 PM	83.3	0.427	1.45	219	ND	ND	65.7	ND	0.0987	2.86	ND	0.311	12.8	3.51	ND	2.02	ND	2.96	0.68	ND	38.4	140	ND	350	3.2	9.29	
		8/20/2015	6:56:00 AM	50.4	0.353	1.42	200	ND	ND	66.4	ND	0.0685	2.19	ND	ND	12.6	ND	ND	1.98	ND	2.79	0.6	ND	36.9	142	ND	320	2.98	8.35	
4952940	San Juan R @ Clay Hills	8/13/2015	2:42:00 PM	643	0.18	1.76	411	0.06	ND	52.3	ND	0.3	4.36	388	0.924	7.5	13.8	ND	2.16	1.09	3.09	0.91	ND	47	158	ND	500	4.99	19.2	
		8/14/2015	2:33:00 PM	38.5	0.316	1.89	121	ND	ND	51.1	ND	0.125	3.6	ND	ND	8.23	ND	ND	3.3	1.28	3.69	1.13	0.0286	49.8	144	ND	570	5.38	ND	
		8/15/2015	2:30:00 PM	119	0.343	1.75	136	ND	ND	43.1	ND	0.0773	2.6	ND	ND	8.99	ND	ND	4.27	0.95	3.62	1.18	ND	66.3	159	ND	920	5.48	ND	
		8/16/2015	2:46:00 PM	925	0.25	1.71	319	0.05	ND	52.7	ND	0.314	5.26	490	0.458	9.48	9.63	ND	2.78	0.84	4.17	0.91	ND	58.2	NS	NS	1480	5.71	20.6	
		8/17/2015	1:03:00 PM	101	0.263	1.63	132	ND	ND	53.2	ND	0.253	4.65	ND	ND	8.79	2.7	ND	2.55	1.36	3.89	0.73	ND	44.5	NS	NS	1020	4.83	ND	
		8/18/2015	1:45:00 PM	53.2	0.552	1.56	279	ND	ND	60.6	ND	0.0792	2.62	ND	0.295	9.91	ND	ND	2.17	ND	3.49	0.64	0.0427	38.3	132	ND	410	3.61	20.5	
8/19/2015	3:09:00 PM	74.8	0.626	1.57	331	ND	ND	65.7	ND	0.1	2.15	ND	ND	11.4	1.62	ND	2.23	0.9	3.36	0.62	ND	38.1	147	ND	390	4.01	15.3			

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Comparison of San Juan River Raw Water Data with Screening Values for Aquatic Life Use (Warm-water Fishery) – Dissolved Metals

		No Exceedence		Above Screening Level		Prior to Plume Arrival				Estimated Plume Arrival				Post Plume Arrival													
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc		
Utah Aquatic Life Use Criteria 1-hr		750		340			2		570		13	1,000	65					468		18.4	1.6				120		
Utah Aquatic Life Use Criteria 4-day		87		150			0.25		74		9	1,000	2.5			0.01		52		4.6					120		
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
4954000	San Juan R @ US160 Xing in CO	8/8/2015	1:23:00 PM	217	0.524	1.34	222	0.04	ND	51.5	ND	0.127	2.24	95.8	ND	7.85	2.94	ND	1.87	ND	2.96	0.72	ND	32.2	ND	4.86	15.3
		8/9/2015	12:02:00 PM	258	0.341	0.63	274	ND	ND	50.6	ND	0.0817	2.48	119	ND	6.86	2.69	ND	2.01	ND	2.61	0.56	0.03	28.5	ND	1.76	18.5
		8/9/2015	9:02:00 PM	329	0.347	0.95	341	0.04	ND	46	ND	0.139	3.47	198	0.27	6.3	4.14	ND	1.94	ND	2.38	0.54	ND	30	ND	2.07	15.4
		8/10/2015	9:11:00 AM	172	0.458	0.99	233	ND	ND	44.6	ND	0.0673	3.21	103	0.39	6.01	1.64	ND	2.03	ND	2.51	0.65	ND	34.1	ND	1.74	19.7
		8/10/2015	2:06:00 PM	1050	0.711	1.3	220	0.09	ND	44.2	ND	0.407	3.35	732	1.04	6.02	12.8	ND	1.92	0.84	2.72	0.68	0.06	35.1	ND	3.64	18
		8/11/2015	8:50:00 AM	3290	0.364	1.72	451	0.1	ND	39.8	ND	0.488	4.85	1520	1.1	5.05	19	0.02	1.65	1.19	3	0.97	ND	43.7	ND	3.9	19.1
		8/11/2015	1:17:00 PM	720	0.0516	1.33	334	ND	ND	41.7	ND	0.155	3.03	366	0.27	5.11	5.1	ND	1.58	ND	2.91	0.76	ND	37	ND	2.46	14.9
		8/12/2015	9:50:00 AM	104	0.586	0.88	178	ND	ND	52.1	ND	0.0614	2.39	ND	ND	7.2	ND	ND	1.47	ND	2.79	0.78	0.03	30.3	ND	1.9	14.8
		8/12/2015	2:04:00 PM	155	0.548	1.21	151	ND	ND	47.9	ND	0.0478	2.61	ND	ND	6.97	1.82	ND	1.48	ND	2.74	0.73	ND	27.3	ND	2.87	16.5
		8/13/2015	10:01:00 AM	257	0.158	1.25	213	0.03	ND	48.3	ND	0.122	3.67	148	0.37	6.48	3.16	ND	1.89	ND	2.87	0.86	ND	42.5	ND	2.1	21.9
		8/14/2015	2:33:00 PM	64.8	0.421	1.7	72.3	0.04	ND	53.4	ND	0.133	3.86	ND	ND	6.61	1.8	ND	3.65	3.14	3.66	1.1	ND	52.4	0.04	4.1	ND
		8/15/2015	12:04:00 PM	47.5	0.445	1.36	65.2	ND	ND	52.8	ND	0.052	1.35	ND	ND	7.91	ND	ND	2.25	ND	2.61	0.61	ND	25.9	ND	2.61	ND
		8/16/2015	9:15:00 AM	54.4	1.12	0.88	179	0.04	ND	53.9	ND	ND	2.91	ND	ND	8.18	ND	ND	1.72	ND	2.54	0.6	0.19	26.1	ND	1.92	12.6
		8/18/2015	9:56:00 AM	23.9	0.689	1.31	148	ND	ND	57.5	ND	0.0869	2.27	ND	0.29	9.82	ND	ND	1.74	ND	2.5	0.59	0.04	33.4	ND	1.88	12.3
		8/19/2015	9:30:00 AM	ND	0.682	1.34	106	ND	ND	57.1	ND	0.0697	1.7	ND	ND	9.98	ND	ND	1.72	ND	2.54	0.54	0.03	34.1	ND	1.91	8.44
8/20/2015	9:44:00 AM	28.4	0.764	1.32	132	ND	ND	57	ND	0.0772	1.85	ND	ND	9.55	ND	ND	1.76	ND	2.44	0.63	0.1	33.8	0.04	1.93	8.1		
4953990	San Juan R @ Town of Montezuma	8/8/2015	2:54:00 PM	136	0.747	1.06	223	0.04	ND	71.5	ND	0.13	2.72	ND	ND	9.92	ND	ND	2.62	0.8	3.84	1.11	0.04	43.5	ND	2.54	21
		8/10/2015	10:13:00 AM	218	0.66	0.94	262	ND	ND	49.8	ND	0.0764	3.24	144	0.46	7.7	3.22	ND	2.03	ND	2.69	0.57	0.05	32.1	ND	2.13	17.3
		8/10/2015	2:58:00 PM	94.5	1.31	0.93	200	0.03	ND	48.6	ND	0.0595	2.48	ND	0.3	7.35	ND	ND	2.32	ND	2.59	0.61	0.25	31.8	ND	1.96	14.6
		8/11/2015	9:44:00 AM	462	0.568	1.17	314	ND	ND	44.6	ND	0.127	2.66	227	ND	6.49	3.31	ND	1.72	ND	2.64	0.68	0.03	37.1	ND	2.21	12.9
		8/11/2015	2:20:00 PM	1400	0.136	1.25	298	0.04	ND	44.8	ND	0.24	3.47	668	0.49	6.57	9.99	ND	1.72	0.95	2.96	0.74	ND	38.3	ND	2.73	14.3
		8/12/2015	10:37:00 AM	67.5	0.799	1.1	202	0.03	ND	48.3	ND	ND	2.49	ND	ND	7.23	ND	ND	1.66	ND	2.67	0.8	0.04	31.9	ND	1.68	13.5
		8/12/2015	2:57:00 PM	375	0.822	0.91	176	ND	ND	48.9	ND	0.0898	4.34	296	ND	7.5	2.28	ND	1.64	ND	2.84	0.72	0.03	33.8	ND	1.99	15.9
		8/13/2015	4:46:00 PM	330	1.88	1.28	240	0.07	ND	49.4	ND	0.18	3.75	192	ND	8.08	5.3	ND	1.91	0.98	2.62	0.98	0.24	32.9	0.03	3.12	32.7
		8/14/2015	9:55:00 AM	24.8	0.582	1.27	85.1	0.04	ND	55.1	ND	0.146	3.79	ND	ND	7.81	ND	ND	2.84	1.76	3.51	0.99	0.04	53	0.03	3.07	ND
		8/15/2015	11:31:00 AM	68.1	0.642	1.58	73.6	0.04	ND	55	ND	0.244	4.38	ND	ND	8.57	3.36	ND	2.43	1.09	3.16	0.89	0.07	35.8	ND	3.54	ND
		8/16/2015	10:02:00 AM	61.8	0.835	1.17	145	0.06	ND	57.5	ND	0.092	3.01	ND	ND	9.36	ND	ND	1.99	ND	2.96	0.67	0.28	30.3	0.05	2.16	9.78
		8/17/2015	4:07:00 PM	27.3	0.285	1.17	80.4	ND	ND	60.2	ND	0.137	1.87	ND	ND	11.6	2.4	ND	1.97	ND	2.82	0.63	ND	29.4	ND	2.18	ND
		8/18/2015	8:41:00 AM	24.6	1.02	1.19	197	0.03	ND	62.7	ND	0.0974	3.44	ND	0.32	12.7	ND	ND	2.07	ND	2.64	0.63	0.14	35.4	0.08	2.29	14.8
		8/19/2015	8:15:00 AM	ND	0.947	1.22	141	ND	ND	63.1	ND	0.0794	1.67	ND	ND	13.7	ND	ND	1.99	ND	2.67	0.65	0.1	37.7	0.03	2.3	9.64
8/20/2015	8:59:00 AM	ND	0.994	1.4	128	ND	ND	62.7	ND	0.071	1.93	ND	ND	13.4	ND	ND	1.8	ND	2.62	0.66	ND	37.5	ND	2.14	6.64		

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No Exceedence		Above Screening Level		Prior to Plume Arrival				Estimated Plume Arrival				Post Plume Arrival															
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc		
Utah Aquatic Life Use Criteria 1-hr		750		340			2		570		13	1,000	65					468		18.4	1.6				120		
Utah Aquatic Life Use Criteria 4-day		87		150			0.25		74		9	1,000	2.5			0.01		52		4.6					120		
Monitoring Location	Site Description	Collection Date	Collection Time	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
4953250	San Juan R @ Sand Island	8/8/2015	4:19:00 PM	214	1.38	1.03	294	0.06	ND	73.7	ND	0.124	3.86	104	ND	9.24	2.55	ND	3.3	1.01	4.11	1.43	0.12	51.2	ND	2.22	19
		8/10/2015	11:15:00 AM	124	1.24	0.88	192	ND	ND	53.2	ND	0.0685	2.07	ND	0.29	8.4	ND	ND	2.38	ND	2.86	0.69	0.25	28.4	ND	1.75	13.7
		8/10/2015	3:58:00 PM	108	0.574	1.07	184	ND	ND	48.4	ND	0.0556	1.96	ND	0.32	7.83	ND	ND	2.26	ND	2.67	0.53	ND	30.6	ND	1.89	13.2
		8/11/2015	10:53:00 AM	684	1.18	1.23	278	0.06	ND	45.8	ND	0.172	2.87	328	ND	6.93	4.12	ND	1.92	0.78	2.72	0.69	0.27	36.8	0.03	2.55	13.7
		8/11/2015	3:01:00 PM	158	0.271	1.01	251	ND	ND	45.3	ND	0.0864	2.69	89.2	ND	6.65	ND	ND	1.85	ND	2.76	0.67	ND	36.6	ND	2.05	14.9
		8/12/2015	11:12:00 AM	623	1.08	1.41	205	0.05	ND	46.8	ND	0.154	3.44	310	ND	6.98	4.47	ND	1.93	ND	2.91	0.79	0.06	37.8	ND	2.61	14.5
		8/12/2015	5:06:00 PM	605	1.78	1.43	260	0.06	ND	46.6	ND	0.162	2.98	314	ND	7.07	5.16	ND	1.81	0.91	2.79	0.78	0.15	33.5	ND	2.32	13.2
		8/13/2015	11:28:00 AM	509	0.667	1.3	156	0.03	ND	53.6	ND	0.21	3.1	275	ND	8.21	8.9	ND	1.62	ND	2.96	0.68	ND	29.2	ND	3.65	20.4
		8/14/2015	11:02:00 AM	ND	1.03	2.03	78.6	0.05	ND	53.2	ND	0.131	3.31	ND	ND	8.26	7.02	ND	5.31	2.38	3.27	1.08	0.19	49.5	0.13	5.88	4.87
		8/15/2015	10:30:00 AM	95.2	1.12	1.84	83.5	0.04	ND	55.7	ND	0.085	2.27	ND	ND	8.4	ND	ND	3.93	0.82	3.46	1.06	0.28	46.7	0.05	3.45	ND
		8/16/2015	11:06:00 AM	290	0.425	1.23	149	0.04	ND	55.8	ND	0.146	3.89	202	ND	10.2	3.94	ND	1.95	ND	2.91	0.71	0.04	36.3	ND	2.04	10.5
		8/17/2015	3:33:00 PM	ND	0.408	1.48	87.1	ND	ND	62.4	ND	0.172	2.11	ND	ND	11.2	ND	ND	2.67	1.28	3.13	0.63	ND	30	ND	2.75	ND
8/18/2015	11:22:00 AM	ND	0.583	1.46	138	ND	ND	66.4	ND	0.0643	2.25	ND	0.38	12.8	1.55	ND	1.94	ND	2.92	0.57	ND	36	ND	2.38	12.3		
8/19/2015	12:33:00 PM	32.9	0.513	1.32	122	ND	ND	64.5	ND	0.0747	1.91	ND	ND	12.9	1.79	ND	1.96	ND	2.75	0.56	ND	36.1	ND	2.46	8.68		
8/20/2015	7:21:00 AM	24.4	0.341	1.42	138	ND	ND	61.2	ND	0.0766	2.33	ND	ND	12.4	ND	ND	1.86	ND	2.6	0.62	ND	36.1	ND	2.61	9.07		
4953000	San Juan R @ Mexican Hat US163 Xing	8/8/2015	5:40:00 PM	264	1.38	1.57	308	0.04	ND	49.2	ND	0.127	3.95	144	ND	5.75	2.81	ND	3.15	0.89	4.15	0.92	0.1	62.6	ND	3.13	14.2
		8/10/2015	11:53:00 AM	325	0.376	1.94	299	ND	ND	44.6	ND	0.102	2.95	140	0.32	7.84	2.55	ND	2.43	ND	3.41	0.61	0.03	43.6	ND	7.59	17.6
		8/10/2015	4:44:00 PM	149	1.26	1.4	265	ND	ND	44.2	ND	0.0789	2.48	ND	0.32	7.87	ND	ND	2.63	ND	3.35	0.75	0.19	41.9	ND	6.67	18.5
		8/11/2015	11:31:00 AM	907	1.42	1.98	391	0.05	ND	37.2	ND	0.179	3.13	382	ND	6.72	4.55	ND	2.46	0.85	3.29	0.78	0.21	51.3	0.04	7.82	12.4
		8/11/2015	3:43:00 PM	1790	1.23	1.59	445	0.07	ND	43.6	ND	0.311	5.28	787	0.57	7.19	11.6	ND	1.98	1.02	3.11	0.82	0.23	41.4	0.03	4.55	17.4
		8/12/2015	12:09:00 PM	125	1.41	1.59	245	0.03	ND	59.8	ND	0.0512	3.34	ND	ND	7.86	ND	ND	2.27	ND	3.09	0.92	0.15	42.1	ND	3.07	14.2
		8/12/2015	5:50:00 PM	105	2.23	1.79	185	0.09	ND	48.9	ND	0.0691	3.19	ND	ND	7.22	ND	ND	2.64	ND	3.16	1.16	0.26	48.7	ND	4.34	16.1
		8/13/2015	12:05:00 PM	293	1.61	2.06	201	ND	ND	42.6	ND	0.148	3.46	143	ND	7.21	3.54	ND	2.33	0.76	3.3	1.18	0.18	44.4	ND	7.13	19.8
		8/14/2015	11:43:00 AM	120	1.04	2.33	157	0.04	ND	46.2	ND	0.236	5.86	ND	ND	10.5	2.43	ND	5.87	1.75	4.29	1.56	0.15	68	0.18	8.06	ND
		8/15/2015	9:43:00 AM	135	1.04	1.7	117	0.03	ND	53.7	ND	0.575	8.56	ND	ND	9.03	7.42	ND	3.28	1.66	3.62	1.19	0.19	51.9	0.06	5.65	6.18
		8/16/2015	11:58:00 AM	84.3	0.447	1.35	194	0.03	ND	57.7	ND	0.12	3.92	ND	ND	8.96	ND	ND	2.31	ND	3.5	0.84	0.03	40.2	ND	3.31	13.8
		8/17/2015	3:04:00 PM	52.3	0.817	1.55	108	ND	ND	59.3	ND	0.128	2.85	ND	ND	10.3	ND	ND	2.55	1.23	3.42	0.86	0.19	37.3	0.04	3.4	ND
8/18/2015	11:55:00 AM	123	1.59	1.42	258	ND	ND	65.3	ND	0.137	3.05	ND	0.5	11.9	3.96	ND	2.09	ND	3.05	0.6	0.09	35.8	0.04	2.97	20.4		
8/19/2015	1:03:00 PM	83.3	0.427	1.45	219	ND	ND	65.7	ND	0.0987	2.86	ND	0.31	12.8	3.51	ND	2.02	ND	2.96	0.68	ND	38.4	ND	3.2	9.29		
8/20/2015	6:56:00 AM	50.4	0.353	1.42	200	ND	ND	66.4	ND	0.0685	2.19	ND	ND	12.6	ND	ND	1.98	ND	2.79	0.6	ND	36.9	ND	2.98	8.35		
4952940	San Juan R @ Clay Hills	8/13/2015	2:42:00 PM	643	0.18	1.76	411	0.06	ND	52.3	ND	0.3	4.36	388	0.92	7.5	13.8	ND	2.16	1.09	3.09	0.91	ND	47	ND	4.99	19.2
		8/14/2015	2:33:00 PM	38.5	0.316	1.89	121	ND	ND	51.1	ND	0.125	3.6	ND	ND	8.23	ND	ND	3.3	1.28	3.69	1.13	0.03	49.8	ND	5.38	ND
		8/15/2015	2:30:00 PM	119	0.343	1.75	136	ND	ND	43.1	ND	0.0773	2.6	ND	ND	8.99	ND	ND	4.27	0.95	3.62	1.18	ND	66.3	ND	5.48	ND
		8/16/2015	2:46:00 PM	925	0.25	1.71	319	0.05	ND	52.7	ND	0.314	5.26	490	0.46	9.48	9.63	ND	2.78	0.84	4.17	0.91	ND	58.2	ND	5.71	20.6
		8/17/2015	1:03:00 PM	101	0.263	1.63	132	ND	ND	53.2	ND	0.253	4.65	ND	ND	8.79	2.7	ND	2.55	1.36	3.89	0.73	ND	44.5	ND	4.83	ND
		8/18/2015	1:45:00 PM	53.2	0.552	1.56	279	ND	ND	60.6	ND	0.0792	2.62	ND	0.3	9.91	ND	ND	2.17	ND	3.49	0.64	0.04	38.3	ND	3.61	20.5
8/19/2015	3:09:00 PM	74.8	0.626	1.57	331	ND	ND	65.7	ND	0.1	2.15	ND	ND	11.4	1.62	ND	2.23	0.9	3.36	0.62	ND	38.1	ND	4.01	15.3		

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