Megan, You & Barry need to talk → What benchmarks apply? Have wetlands,.. Environmental Benchmarks needed for SW samples

Remove these are not applicable SW targets don't exist for SW pathway

Double chk everything

For SW/seds — reorder results to go from background/upstream to downstream locations, ending with lowest sample on Animas — insert other inflows as necessary, upstream of other locations

For my info: SGC WQP permit allowed for

TABLE 2
Surface Water Results

Sample ID: / Location: / Analytes	Superfund Chemical Data Matrix (SCDM) RDSC (µg/L)	Superfund Chemical Data Matrix (SCDM) CRSC (µg/L)	MCL/MCLG (µg/L)	UASW030 Lower Ross Basin Drainage upstream of Grand Mogul Mine (Background) (µg/L)	UASW001 Animas River downstream of the confluence with Cement Creek (µg/L)	UASW002 Cement Creek immediately upstream of the confluence with the Animas River (µg/L)	UASW003 Animas River upstream of the confluence with Cement Creek (µg/L)	UASW004 Cement Creek downstream of confluence with the South Fork of Cement Creek (µg/L)	USSW005 South Fork of Cement Creek (µg/L)	UASW006 Cement Creek downstream of the American Tunnel and upstream of the confluence with the South Fork of Cement Creek (µg/L)	UASW007 Discharge from the American Tunnel immediately above confluence with Cement Creek (µg/L)	UASW008 Cement Creek upstream of the American Tunnel (µg/L)	UASW009 Cement Creek downstream of the confluence with the North Fork of Cement Creek (µg/L)	max	30-day avg
Aluminum	750	87		69X3 207	7330 ☆	7810 ☆	86.2 258.6	5130 ☆	720 ☆	9160 ☆	5730 ☆	7940 ☆	7030 ☆		
Antimony	15	—	—	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U		
~~Arsenic~~	11 340	0.057 150	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U		
Barium	2,600	—	2,000	30.8 JD	25 U	25 U	25 U	25 U	25 U	25 U	50 U	25 U	25 U		
Beryllium	73	—	4.0	0.5 U	1.17 D	0.826 JD	0.5 U x3	2.28 D	0.5 U	3.61 D	3.54 D	2.88 D	3.57 D		
Cadmium	18 2	0.25	5.0	3.09 D (9.3)	6.19 D potential?	6.55 D potential?	1.82 D x3 5.46	16.1 D ★	2.73 D	30.3 D ★	2.54 D	28.7 D ★	29.1 D ★	100	50
Calcium	—	—		46200	169000 ☆	175000☆	54300	202000☆	162000 ☆	258000 ☆	450000 ☆	238000 ☆	230000 ☆		
Chromium	120	—	100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U		
Cobalt	—	—		0.5 U	20.4 D	23.7 D	0.5 U	33 D	7.71 D	59.4 D	136 D	46.6 D	49.2 D		
Copper	13	9	1,300	25.2 D (75.6)	121 D ☆	148 D ☆	2.5 U	398 D ☆	8.83 D	796 D ☆	5 U	884 D ☆	909 D ☆		
Iron	—	1000		100 U	10800	11500	100 U	16200	3230	32500	131000	30000	31400	300	150
Lead	65	2.5	15	0.62 JD 1.86	17.8 D ★	17.8 D ★	0.79 JD 2.1	25 D ★	0.643 JD	44.8 D ★	1.52 JD	19.3 D ★	14.6 D ☆	Pb not attnb. → 600	Pb AT - NL UASW007 300
Magnesium	—	—		4060	10400	10900	3290	13100 ☆	8230	18200 ☆	31400 ☆	16100 ☆	15600 ☆		
Manganese	5,100	—		120 (366)	4760 ☆	4650 ☆	1940 ☆ 5820	10100 ☆	1840 ☆	18500 ★	43000 ★	14800 ★	14800 ★		
Molybdenum	11	—	2.0	0.5 U	0.5 U	1.04 JD	3.63 D	0.5 U	0.535 JD	0.5 U	1 U	0.5 U	0.5 U		
Nickel	730 470	52		2.5 U	8.46 D	10.6 D	2.5 U	14.7 D	2.5 U	24.8 D	46.9 D	20.8 D	328 D		
Potassium	—	—		294 J	1700 ☆	1790 ☆	614 J	933 J ☆	747 J	987 J ☆	1740 ☆	926 J ☆	899 J ☆		
Selenium	180	—	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U		
Silver	180 3.2	5 —		0.5 U	0.5 U	0.953 JD	0.843 JD	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U		
Sodium	—	—		1230	4450 ☆	4540 ☆	2460	4480 ☆	3470	5630 ☆	9500 ☆	5100 ☆	4820 ☆		
Thallium	—	—	0.50	2.5 U	2.5 U	5.61 D	15.4 D	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U		
Vanadium	260	—		5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U		
Zinc	11,000 120	120		556 1668	2410 ★	2370 ★	449 1347	5510 ★	647	10700 ☆	18800 ★	9230 ☆	9350 ☆	1500	750

Level II → no benchmarks

Level I

throughout SW tables

Pb, Zn, Cd x3 x4 UASW003

Animas Bkgd

chk for solid stats

? outlier

1262090

Sample ID: / Location: / Analytes	Superfund Chemical Data Matrix (SCDM) RDSC (µg/L)	Superfund Chemical Data Matrix (SCDM) CRSC (µg/L)	MCL/MCLG (µg/L)	UASW030 Lower Ross Basin Drainage upstream of Grand Mogul Mine (Background) (µg/L)	UASW010 North Fork of Cement Creek upstream of the confluence with Cement Creek (µg/L)	UASW011 North Fork of Cement Creek downstream of the Gold King 7 Level Mine (µg/L)	UASW012 North Fork of Cement Creek upstream of the Gold King 7 Level Mine (µg/L)	UASW013 Cement Creek upstream of the confluence with the North Fork of Cement Creek (µg/L)	UASW014 Cement Creek downstream of Red and Bonita Mine (µg/L)	UASW015 Drainage channel adjacent to county road below Red and Bonita (µg/L)	UASW016 Cement Creek upstream of Red and Bonita Mine (µg/L)	UASW017 Cement Creek downstream of wetland that channels Mogul Mine drainage (µg/L)	UASW018 Cement Creek upstream of wetland that contains Mogul Mine drainage (µg/L)
Aluminum				69	23500 ☆	18100 ☆	3820 ☆ x3 11460	3550 ☆ 10650	4980 ☆	3040 ☆	2480 ☆	2570 ☆	2830 ☆
Antimony	15		6	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U
Arsenic	11	0.057	10	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U
Barium	2,600		2,000	30.8 JD	50 U	50 U	25 U	25 U	25 U	50 U	25 U	25 U	25 U
Beryllium	73		4.0	0.5 U	6.34 D	7.06 D	0.595 JD	2.73 D	3.03 D	6.95 D	0.5 U	1.08 D	0.76 JD
Cadmium	18		5.0	3.09 D	63.7 D ★	53.3 D ★	4.69 D x3 14.07	22 D ★	25.8 D ★	42.2 D ★	13.7 D ★	15.8 D ★	19.2 D ★
Calcium				46200	348000 ☆	388000	52500	210000	231000	450000	87800	81400	71600
Chromium	110		100	2.5 U	5 U	5 U	2.56 JD	2.5 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U
Cobalt				0.5 U	83.1 D	81.4 D	7.94 D	36.3 D	46 D	95.9 D	1.83 D	2.34 D	3.02 D
Copper			1,300	25.2 D	4230 D ★	4580 D ★	291 D ☆ x3 873	128 D ☆	121 D ☆	5 U	140 D ☆	201 D ☆	240 D☆
Iron				100 U	52900	66700	100 U	27700	30600	95200	210 J	186 J	413
Lead			15	0.62 JD	5.93 D ☆	5.66 D ☆	4.5 D ☆ x3 13.5	13.3 D ☆	16.1 D ★	13.1 D ☆	7.42 D ☆	12.6 D ☆	11.9 D ☆
Magnesium				4060	24800 ☆	22300 ☆	7230	14000 ☆	15700 ☆	28900 ☆	6010	6280	6880
Manganese	5,100			120	23700 ★	26000 ★	742 ☆ x3 2226	12800 ★	14900 ★	31900 ★	3000 ☆	3370 ☆	4040 ☆
Molybdenum	11		2.0	0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Nickel	730			2.5 U	39.3 D	35.8 D	5.44 D	16.3 D	20.2 D	38.6 D	3.23 JD	4.23 JD	5.71 D
Potassium				294 J	1430 ☆	1790 ☆	545 J	874 J	920 J ☆	1850 ☆	532 J	568 J	593 J
Selenium	180		50	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U
Silver	180			0.5 U	1 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U
Sodium				1230	5140 ☆	5240 ☆	2040	4980 ☆	5430 ☆	8800 ☆	2890	2610	2190
Thallium			0.50	2.5 U	5 U	5 U	2.5 U	2.5 U	2.5 U	5 U	2.5 U	2.5 U	2.5 U
Vanadium	260			5 U	10 U	10 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U
Zinc	11,000			556	16200 ★	17100 ★	924 x3 2772	7890 ☆	8770 ☆	15500 ★	4640 ☆	4910 ☆	5950 ☆

Barry/Megan
Could SW/SE 005 be another good background location? esp wrt sed samples
In table label, please ID which samples are associated with background & downstream wetlands

Barry, For Quickreach, Need to ID where have Level I, II, and potential contaminations as upon SW discrete pathway in Quickscan narrative, if have sites w/ Level I

Megan, please take another look at all the surface water analytical results in narrative

Blegd on N Fk

(Did USGS gauges get sampled? Fig 3 indicates such)

I have not completed highlighting observed releases, so please chk all data

Source? How is this sample different from UASD004 Same? for other samples where I ask "source?" May need better location (x,y) or description to know what you are comparing to.

TABLE 4
Surface Water Results (continued)

Is this Queen ↓ Pat Gulch

Is this 472? please note ABSG sample IDs too.

Sample ID: Location: Analytes	Superfund Chemical Data Matrix (SCDM) RDSC (µg/L)	Superfund Chemical Data Matrix (SCDM) CRSC (µg/L)	MCL/MCLG (µg/L)	UASW030 Lower Ross Basin Drainage upstream of Grand Mogul Mine (Background) (µg/L)	UASW019 Mogul Mine drainage (µg/L)	UASW020 Cement Creek upstream of Mogul Mine (µg/L)	UASW021 Cement Creek downstream of Mogul North Mine (µg/L)	UASW022 Mogul North Mine discharge (µg/L)	UASW023 Cement Creek upstream of Mogul North Mine (µg/L)	UASW024 Cement Creek upstream of confluence with Lower Ross Basin Drainage (µg/L)	UASW029 Animas River Below Silverton (µg/L)	UASW032 Animas River downstream of the confluence with Mineral Creek (µg/L)	UASW033 Mineral Creek upstream of the confluence with the Animas River (µg/L)
Aluminum				69	10100 ☆	996 ☆	1520 ☆	1430 ☆	1580 ☆	2180 ☆	1300 ☆	275 ☆	381 ☆ x3 = 1143
Antimony	15		6	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Arsenic	11	0.057	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Barium	2,600		2,000	30.8 JD	25 U	25 U	26.3 JD	39.4 JD	29.1 JD	34.7 JD	25 U	25 U	25 U
Beryllium	73		4.0	0.5 U	3.8 D	0.5 U	0.649 JD	0.5 U	0.5 U	0.968 JD	0.5 U	0.5 U	0.5 U
Cadmium	18		5.0	3.09 D	72.8 D ★	8.88 D ★	12 D★	10.9 D★	13.6 D★	16.9 D★	0.653 JD >2.5	1.76 D >2.5	0.926 JD
Calcium				46200	174000	45100	55900	62000	55400	72700	87500	76900	57500
Chromium	110		100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cobalt				0.5 U	22.6 D	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.84 D	6.34 D	3.75 D
Copper			1,300	25.2 D	820 D ☆	91.1 D ☆	105 D ☆	22.3 D	102 D ☆	38.6 D	2.5 U	13.9 D	2.5 U
Iron				100 U	4460	100 U	100 U	100 U	100 U	100 U	8140	2630	2800
Lead			15	0.62 JD 1.86	75.6 D ★	4.01 D ☆	2.62 D ☆	2.54 D ☆	2.03 D ☆	2.21 D ☆	8.74 D ☆	0.5 U	1.23 D
Magnesium				4060	13600 ☆	5520	7150	8310	7020	9760	7330	5720	4860
Manganese	5,100			120	21900 ★	306	550 ☆	111	633 ☆	977 ☆	796 ☆	1270 ☆	327
Molybdenum	11		2.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nickel	730			2.5 U	13.6 D	4.42 JD	6.43 D	9.47 D	6.06 D	12.1 D	2.5 U	2.5 U	2.5 U
Potassium				294 J	1420 ☆	462 J	517 J	634 J	250 J	561 J	1620 ☆	856 J	629 J
Selenium	180		50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Silver	180			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Sodium				1230	5520 ☆	1150	1260	1260	1280	1340	5580 ☆	3570	3300
Thallium			0.50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vanadium	260			5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Zinc	11,000			556	27600 ★	1920 ☆	2550 ☆	3080 ☆	2750 ☆	3230 ☆	94.6	558	185

Solid Stars

Double ✓ all for 3 x Bkgd and 3 x Bkgd & > CCC or CHC

Source?

Sample ID: Location: Analytes	Superfund Chemical Data Matrix (SCDM) RDSC (µg/L)	Superfund Chemical Data Matrix (SCDM) CRSC (µg/L)	MCL/MCLG (µg/L)	UASW030 Lower Ross Basin Drainage upstream of Grand Mogul Mine (Background) (µg/L)	UASW034 Animas River upstream of the confluence with Mineral Creek (µg/L)	UASW035 Cement Creek downstream of the Kendrick-Gelder Smelter (µg/L)	UASW036 Cement Creek upstream of the Kendrick-Gelder Smelter (µg/L)	UASW037 Cement Creek downstream of the Illinois Gulch drainage (µg/L)	UASW039 Cement Creek upstream of the confluence with Illinois Gulch drainage and downstream of Ohio Gulch drainage (µg/L)	UASW040 Ohio Gulch drainage (µg/L)	UASW041 Cement Creek upstream of the confluence with Ohio Gulch drainage (µg/L)	UASW042 Cement Creek downstream of the Anglo Saxon Mine drainage (µg/L)	UASW043 Anglo Saxon Mine drainage (µg/L)
Aluminum				69	530 ☆	7890 ☆	7800 ☆	7580 ☆	8320 ☆	17100 ☆	8090 ☆	7870 ☆	225 ☆
Antimony	15		6	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U
Arsenic	11	0.057	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U
Barium	2,600		2,000	30.8 JD	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U
Beryllium	73		4.0	0.5 U	0.5 U	1.14 D	0.91 JD	0.986 JD	0.925 JD	1.72 D	1.58 D	1.36 D	1.31 JD
Cadmium	18		5.0	3.09 D	2.96 D	6.57 D	5.87 D	7.38 D	7.47 D	4.41 D	8.71 D	8.14 D	2.1 D
Calcium				46200	91000	177000 ☆	171000 ☆	172000 ☆	165000 ☆	57800	171000 ☆	175000 ☆	304000 ☆
Chromium	110		100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U
Cobalt				0.5 U	7.33 D	22.3 D	23.5 D	24.7 D	27.3 D	59.1 D	26.7 D	25.6 D	34.9 D
Copper			1,300	25.2 D	26.1 D	147 D ☆	146 D ☆	175 D ☆	184 D ☆	229 D ☆	184 D ☆	191 D ☆	5 U
Iron				100 U	1980	12000	12200	14800	17600	32700	17200	17100	19300
Lead			15	0.62 JD	0.5 U	17.4 D ★	18.9 D ★	22.4 D ★	25.7 D ★	95.6 D ★	24.5 D ★	24.1 D ★	1 U
Magnesium				4060	5630	10900	10600	10900	11300	12600	11300	11600	18900 ☆
Manganese	5,100			120	2560 ☆	4580 ☆	4390 ☆	5280 ★	5610 ★	5010 ☆	5710 ★	5900 ★	8020 ★
Molybdenum	11		2.0	0.5 U	0.67 JD	0.5 U	0.9 JD	0.557 JD	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Nickel	730			2.5 U	2.96 JD	11 D	11.7 D	11.5 D	12.7 D	33.2 D	12.9 D	12.2 D	5 U
Potassium				294 J	1010 ☆	1840 ☆	1780 ☆	1580 ☆	1680 ☆	1300 ☆	1680 ☆	1650 ☆	2450 ☆
Selenium	180		50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5 U
Silver	180			0.5 U	0.5 U	0.5 U	0.891 JD	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U
Sodium				1230	3150	4550 ☆	4460 ☆	4310 ☆	4090 ☆	2180	4150 ☆	4280 ☆	9620 ☆
Thallium			0.50	2.5 U	2.5 U	2.5 U	6.35 D	4.02 JD	2.77 JD	2.5 U	2.5 U	2.5 U	5 U
Vanadium	260			5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
Zinc	11,000			556	1030	2340 ☆	2260 ☆	2800 ☆	3000 ☆	1070	3090 ☆	3160 ☆	2450 ☆

largest Al input

TABLE 2
Surface Water Results
(continued)

sign. Pb, Al, inflow

Sources?

Sample ID:	Superfund Chemical Data Matrix (SCDM)	Superfund Chemical Data Matrix (SCDM)		UASW030	UASW044	UASW045	UASW046	UASW047	UASW049	UASW050	UASW054	UASW056	UASW058	UASW059
Location:	RDSC	CRSC	MCL/MCLG	Lower Ross Basin Drainage upstream of Grand Mogul Mine (Background)	Cement Creek upstream of the Anglo Saxon Mine and downstream of Minnesota Gulch drainage	Minnesota Gulch drainage	Cement Creek upstream of the confluence with Minnesota Gulch drainage	Cement Creek downstream of the Elk Tunnel and Fairview Gulch	Cement Creek upstream of the confluence with Fairview Gulch and the Elk Tunnel discharge	Cement Creek downstream of the Mammoth Tunnel	Prospect Gulch drainage	Cement Creek downstream of the Dry Gulch drainage	Cement Creek upstream of the confluence with Dry Gulch drainage	Cement Creek at the toe of Grand Mogul Mine
Analytes	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Aluminum				69	8150 ☆	4280 ☆	8340 ☆	8450 ☆	8900 ☆	8830 ☆	14400 ☆	5440 ☆	5510 ☆	13200 ☆
Antimony	15		6	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Arsenic	11	0.057	10	2.5 U	2.5 U	2.5 U	2.5 U	3.51 JD	5 JD	4.63 JD	17 D	2.5 U	2.5 U	26.9 D
Barium	2,600		2,000	30.8 JD	25 U	29 JD	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Beryllium	73		4.0	0.5 U	1.32 D	1.05 D	1.52 D	1.44 D	1.27 D	1.5 D	0.726 JD	1.75 D	1.52 D	0.94 JD
Cadmium	18		5.0	3.09 D	9.09 D	3.79 D	8.6 D	8.99 D	9.51 D ★	9.7 D ★	5.33 D	12.7 D ★	13.7 D ★	105 D ★
Calcium				46200	167000 ☆	52700	170000 ☆	170000 ☆	171000 ☆	169000 ☆	35400	178000☆	182000 ☆	17400
Chromium	110		100	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.46 D
Cobalt				0.5 U	28.9 D	20.6 D	28.2 D	29.4 D	29.8 D	28.7 D	26.1 D	30.4 D	30.4 D	25.6 D
Copper			1,300	25.2 D	212 D ☆	150 D ☆	212 D ☆	225 D ☆	239 D ☆	235 D ☆	190 D ☆	355 D ☆	366 D ☆	4690 D ★
Iron				100 U	18200	268	20000	21800	24100	23900	27600	16900	15900	46400
Lead			15	0.62 JD	26 D ★	9.44 D ☆	24.8 D ★	24.7 D ★	25.4 D ★	25.3 D ★	57.3 D ★	26.8 D ★	27.9 D ★	33.8 D ★
Magnesium				4060	11200	9690	11300	11400	11800	11700	7560	12200 ☆	12600 ☆	12000
Manganese	5,100			120	5750 ★	1620 ☆	5780 ★	5860 ★	6180 ★	6240 ★	826 ☆	8750 ★	9150 ★	8740 ★
Molybdenum	11		2.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nickel	730			2.5 U	14.9 D	13.6 D	13.2 D	14.4 D	15.3 D	15.2 D	19.6 D	12.2 D	12.6 D	16.4 D
Potassium				294 J	1650 ☆	714 J	1660 ☆	1680 ☆	1720 ☆	1700 ☆	2130 ☆	1100 ☆	1070 ☆	362 J
Selenium	180		50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Silver	180			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Sodium				1230	4030 ☆	1620	4030 ☆	3990 ☆	3870 ☆	3810 ☆	1230	4280 ☆	4370 ☆	626
Thallium			0.50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vanadium	260			5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Zinc	11,000			556	3210 ☆	907	3230 ☆	3320 ☆	3510 ☆	3560 ☆	1350	4850 ☆	5130 ☆	24900 ★

we have been calling collapsed adit seep - not Cement Creek

ACOIF

UASW030 is on Cement Creek

J	The associated numerical value is an estimated quantity because quality control criteria wer
U	The analyte was not detected at or above the CRDL.
UJ	The reported quantitation limt is estimated because Quality Control criteria were not met.
J-	The associated numerical value is an estimated quantity but the result may be biased low.
D	The analyte was identified in a sample at a secondary dilution factor
☆	The analyte was detected at three times greater than the background concentration
★	The analyte was detected at three times greater than the background concentration and greater than an associated benchmark

Sources: EPA 2004 (SCDM)

Shaded mean ...
Define acronyms and units