Table 2. Locations and geochemical data for groundwater samples.

Field sample ID	Latitude	Longitude	Comments	Sampling method	Depth to water feet from top of casing	1000 $\delta^{18}O_{VSMOW}$	1 SD 1000 $\delta^{18}O_{VSMOW}$	1000 $\delta^{2}H_{VSMOW}$	1 SD 1000 $\delta^{2}H_{VSMOW}$	USEPA Dissolved organic carbon mg/L	USGS-Menlo Park Tritium TU	USGS-Menlo Park Tritium 1 SD TU	Field parameter pH	Field parameter Oxidation reduction potential (ORP) mV	ORP converted to Eh mV	Eh converted to pe mV
Detection limits (MDL)										0.067						
Detection limits (QL)										0.500						
Alluvial																
676	43.48166	-103.98653	Alluvial	peristaltic pump	-15.64	-12.3	0.09	-98.4	0.26	2.04	0.0	0.6	6.66	134	347	5.9
678	43.45943	-104.00157	Alluvial	peristaltic pump	-9.20	-12.5	0.04	-101.3	0.60	4.21	9.3	0.7	6.95	148	361	6.1
NBA	43.44510	-103.98968	Alluvial	bailer	-32.58	-12.3	0.06	-97.8	0.46	1.63	3.0	0.6	7.29	158	369	6.2
Active flow zone																
13	43.47728	-103.99446	Chilson	installed pump	not available	-17.8	0.06	-135.9	0.33	0.511	15.3	0.9	7.99	-268	-58.4	-1.0
51	43.45834	-103.99811	Chilson	flowing	not available	-16.9	0.06	-132.4	0.18	BQL (0.492)	-0.3	0.6	6.83	-93.9	117	2.0
Burdock area recharge																
679	43.49938	-103.98217	Alluvial	Geosub pump	-29.86	-13.5	0.07	-104.6	0.10	1.40	8.4	0.6	6.95	206	418	7.1
631	43.50800	-103.97560	Fall River	installed pump	-27.71	-14.0	0.06	-105.9	0.24	0.866	9.3	0.7	6.50	-8.80	201	3.4
3026	43.46535	-103.93706	Lower Chilson	installed pump	-140.05	-14.5	0.07	-116.3	0.16	1.70	-0.2	0.6	6.17	17.5	230	3.9
Burdock oxidized zone																
619	43.47445	-103.97160	Chilson	installed pump	not available	-14.3	0.06	-113.0	0.06	1.32	-0.2	0.5	6.80	-57.0	153	2.6
Lower Chilson Burdock																
682	43.45867	-103.96896	Oxidized side	Geosub pump	-52.75	-13.7	0.01	-108.7	0.51	1.48	1.6	0.6	7.00	-119	90.7	1.5
680	43.45515	-103.96901	Pump well	bailer	-40.76	-13.7	0.03	-110.5	0.12	3.87	0.3	0.5	7.51	-281	-70.0	-1.2
684	43.45448	-103.96857	Reduced side	Geosub pump	-27.69	-14.2	0.01	-109.2	0.24	1.46	-0.4	0.6	6.78	-139	71.9	1.2
Burdock Fall River																
698	43.47435	-103.96703	Fall River	Geosub pump	-35.00	-14.5	0.02	-116.5	0.21	1.92	0.1	0.5	7.43	-230	-20.9	-0.4
688	43.45509	-103.96924	Fall River	Geosub pump	-37.63	-15.8	0.09	-126.4	0.08	2.12	-0.2	0.5	7.36	-231	-21.0	-0.4
Upper Chilson Burdock																
692	43.45522	-103.96907	Pump area	Geosub pump	-40.93	-14.2	0.02	-111.1	0.42	1.22	0.0	0.5	8.21	-211	-1.3	0.0
Burdock downgradient																
694	43.44655	-103.99319	Fall River	flowing	40.76	-17.4	0.06	-137.7	0.29	0.680	0.9	0.5	8.21	-198	13.9	0.2
696	43.44680	-103.99335	Chilson	flowing	49.29	-15.5	0.02	-122.3	0.44	0.804	0.7	0.6	6.65	-11.3	200	3.4
Dewey recharge zone																
706	43.51829	-103.99717	Fall River	installed pump	-116.80	-15.7	0.09	-121.9	0.08	0.511	-0.3	0.6	6.89	-110	100	1.7
705	43.51819	-103.99733	Chilson	installed pump	-99.37	-16.0	0.05	-127.7	0.01	BQL (0.437)	0.1	0.6	6.88	11.3	222	3.8
Dewey area Fall River																
685	43.49021	-104.02540	Oxidized side	flowing	15.91	-16.5	0.04	-128.9	0.09	BQL (0.366)	0.0	0.5	7.30	-27.0	182	3.1
681	43.49100	-104.02682	Pump well	flowing	17.03	-17.2	0.01	-136.0	0.22	BQL (0.410)	0.0	0.6	7.35	-77.1	132	2.2
687	43.49103	-104.02776	Reduced side	flowing	20.45	-17.7	0.07	-135.2	0.10	BQL (0.295)	0.1	0.6	7.52	-77.9	131	2.2
695	43.47919	-104.01837	"Downgradient"	flowing	36.42	-17.5	0.01	-137.8	0.16	BQL (0.383)	0.3	0.6	6.94	-101.4	111	1.9
Dewey Upper Fall River																
691	43.49095	-104.02665	Pump area	flowing	17.45	-16.0	0.01	-126.0	0.00	0.640	-0.1	0.5	8.29	-73.0	138	2.3
Dewey area Chilson																
689	43.49118	-104.02691	Pump area	flowing	54.30	-14.5	0.00	-117.5	0.21	BQL (0.431)	0.0	0.5	7.30	-47.1	161	2.7
697	43.47927	-104.01852	"Downgradient"	flowing	72.40	-16.8	0.02	-132.0	0.05	BQL (0.399)	0.1	0.5	7.17	-78.9	131	2.2
Unkpapa																
693	43.49085	-104.02684	Dewey	flowing	121.51	-16.1	0.00	-125.9	0.48	BQL (0.294)	0.2	0.5	8.65	-319	-110	-1.9
690	43.45511	-103.96887	Burdock	flowing	21.36	-15.9	0.03	-126.0	0.47	1.02	0.1	0.6	9.61	-298	-97.0	-1.6

Note that temperatures in flow through cell can warm if very slow flow - especially for 690
Datum for latitude/longitude measurements is WGS84 from a handheld GPS unit
Listed latitude/longitude measurements were done at each well during sampling and may vary slightly from other documentation of well locations
Sulfur-34 isotopes analytical precision is 0.15 for 1 SD.

Abbreviations
USEPA = United States Environmental Protection Agency
USGS = United States Geological Survey
OES = optical emission spectrometry
ICPMS = inductively coupled plasma - mass spectrometry
VSMOW = Vienna standard mean ocean water
SD = standard deviation
TU = tritium units
MDL = method detection limit
QL = quantitation limit
ND = not detected
BQL = below quantitation limit, but number reported if above method detection limit
NTU = national turbidity units
mg/L - milligrams per liter
µg/L = micrograms per liter
µS/cm = microSiemens per centimeter

Field parameter Temperature degrees Celsius	Field parameter Dissolved oxygen mg/L	Field parameter Specific conductance µS/cm	Field parameter Turbidity NTU	Field parameter Alkalinity mg/L as $CaCO_3$	USEPA-OES Silver (Ag) mg/L	USEPA-OES Aluminum (Al) mg/L	USEPA-OES Arsenic (As) mg/L	USEPA-ICPMS Arsenic (As) µg/L	USEPA-OES Boron (B) mg/L	USEPA-OES Barium (Ba) mg/L	USGS-ICPMS Barium (Ba) µg/L	USEPA-OES Beryllium (Be) mg/L	USEPA-OES Calcium (Ca) mg/L	USGS-ICPMS Calcium (Ca) mg/L	USEPA-OES Cadmium (Cd) mg/L	USEPA-ICPMS Cadmium (Cd) µg/L	USEPA-IC Chloride (Cl) mg/L	USEPA-OES Cobalt (Co) mg/L	USEPA-OES Chromium (Cr) mg/L
					0.004	0.148	0.006	0.018	0.100	0.001	2.0	0.003	0.086	2.0	0.001	0.008	0.136	0.001	0.002
					0.014	0.494	0.020	0.060	0.333	0.004		0.010	0.287		0.004	0.025	1.00	0.004	0.007
10.7	5.8	3,002	1.9	239	ND	ND	ND	2.66	0.470	0.011	12.7	ND	510	498	ND	0.033	BQL (9.02)	ND	ND
10.5	0.8	6,023	10.2	464	ND	ND	ND	3.43	1.47	0.018	18.7	ND	424	441	ND	0.083	55.4	0.006	ND
12.5	5.0	5,447	>1100	153	ND	ND	ND	2.77	1.46	0.013	14.8	ND	429	408	ND	0.268	43.3	0.005	ND
13.7	0.3	1,307	2.2	160	ND	ND	ND	1.35	ND	0.008	8.0	ND	69.4	73.2	ND	ND	10.3	BQL(0.001)	ND
13.1	2.1	1,395	2.1	180	ND	ND	ND	2.09	ND	0.008	9.3	ND	73.7	71.8	ND	ND	10.1	BQL(0.001)	ND
12.0	11.7	2,745	7.4	138	ND	ND	ND	2.07	0.430	0.009	9.1	ND	462	557	ND	0.045	8.76	ND	ND
13.5	2.3	2,331	2.2	149	ND	ND	ND	2.30	BQL(0.174)	0.023	22.8	ND	317	373	ND	BQL(0.010)	8.43	BQL(0.001)	ND
12.3	6.3	2,880	2.0	184	BQL(0.006)	ND	ND	14.7	BQL(0.197)	0.012	11.2	ND	396	414	ND	BQL(0.016)	12.9	BQL(0.002)	ND
14.1	0.4	2,427	6.1	128	ND	ND	ND	3.11	ND	0.012	11.7	ND	327	324	ND	0.148	7.72	BQL(0.002)	ND
14.2	1.4	1,591	27.5	244	ND	ND	ND	4.19	BQL(0.118)	0.015	15.8	ND	335	322	ND	ND	11.4	BQL(0.001)	ND
13.4	0.6	2,335	5.5	195	ND	ND	ND	3.75	BQL(0.114)	0.015	14.5	ND	295	281	ND	ND	10.5	ND	ND
12.8	1.2	2,668	3.1	269	ND	ND	ND	4.72	BQL(0.143)	0.012	12.3	ND	365	358	ND	BQL(0.008)	9.67	BQL(0.001)	ND
14.5	0.3	2,113	4.7	157	ND	ND	ND	1.75	ND	0.012	12.5	ND	259	248	ND	ND	7.64	BQL(0.001)	ND
14.0	0.3	1,073	2.2	219	ND	ND	ND	1.67	ND	0.018	18.6	ND	46.4	47.1	ND	ND	11.6	BQL(0.001)	ND
14.1	0.3	760	23.5	115	ND	ND	ND	1.65	ND	0.021	21.2	ND	114	113	ND	ND	7.56	BQL(0.002)	ND
12.4	0.5	1,434	3.8	179	ND	ND	ND	0.769	ND	0.010	10.7	ND	26.4	24.8	ND	ND	12.7	ND	ND
13.2	0.5	1,418	3.8	203	ND	ND	ND	2.27	ND	0.009	10.3	ND	90.6	82.4	ND	ND	8.62	ND	ND
14.1	0.9	1,423	7.8	176	ND	ND	ND	2.06	ND	0.009	9.4	ND	95.5	109	ND	ND	6.30	ND	ND
13.4	0.9	1,630	2.1	191	ND	ND	ND	2.26	ND	0.009	9.0	ND	167	193	ND	ND	9.20	ND	ND
15.2	0.4	1,312	6.0	164	ND	ND	ND	3.75	ND	0.013	14.3	ND	56.9	63.6	ND	ND	12.0	ND	ND
14.6	0.5	1,324	0.9	170	ND	ND	ND	2.71	ND	0.009	9.6	ND	58.9	67.2	ND	ND	14.4	ND	ND
14.6	0.5	1,344	1.6	170	ND	ND	ND	2.65	ND	0.011	10.9	ND	68.4	64.5	ND	ND	11.6	ND	ND
12.2	0.3	1,372	0.8	174	ND	ND	ND	1.62	ND	0.009	9.1	ND	48.9	43.9	ND	ND	11.3	ND	ND
12.5	0.8	1,476	1.8	182	ND	ND	ND	0.175	BQL(0.211)	0.021	22.6	ND	4.96	6.10	ND	ND	148	ND	ND
15.9	0.4	1,029	26.1	147	ND	ND	ND	1.46	ND	0.012	11.7	ND	42.7	44.9	ND	ND	4.90	ND	ND
13.8	0.5	1,229	0.8	164	ND	ND	ND	1.79	ND	0.011	11.7	ND	50.4	48.1	ND	ND	8.22	ND	ND
14.8	0.5	2,018	3.7	58.6	ND	ND	ND	0.728	1.07	0.010	9.8	ND	65.2	69.2	ND	0.049	34.0	ND	ND
21.7	0.3	2,012	1.3	47.5	ND	ND	ND	0.525	0.665	0.009	9.3	ND	36.7	35.1	ND	BQL(0.016)	31.1	ND	ND

USEPA-OES Copper (Cu) mg/L	USEPA-IC Fluoride (F) mg/L	USEPA-OES Iron (Fe) mg/L	USGS-Ferrozine Iron (Fe) mg/L	USEPA-ICPMS Iron (Fe) µg/L	USGS-ICPMS Iron (Fe) µg/L	USGS-Ferrozine Percent Ferrous	Field test Iron (Fe) mg/L	USEPA-OES Potassium (K) mg/L	USGS-ICPMS Potassium (K) mg/L	USGS-ICPMS Lithium (Li) µg/L	USEPA-OES Magnesium (Mg) mg/L	USGS-ICPMS Magnesium (Mg) mg/L	USEPA-OES Manganese (Mn) mg/L	USGS-ICPMS Manganese (Mn) µg/L	USEPA-OES Molybdenum (Mo) mg/L	USEPA-OES Sodium (Na) mg/L	USGS-ICPMS Sodium (Na) mg/L	USEPA-OES Nickel (Ni) mg/L	USEPA-ICPMS Nickel (Ni) µg/L
0.006	0.056	0.020	0.010	0.055	500		0.05	0.106	0.30	1.0	0.030	0.1	0.004	2.0	0.005	0.513	0.1	0.025	0.023
0.020	0.200	0.067		0.182				0.354			0.100		0.014		0.017	1.710		0.084	0.077
ND	ND	ND	ND	4.00	ND	ND	0.0	11.0	10.7	128	131	131	ND	ND	BQL(0.005)	91.8	84.2	ND	5.62
ND	ND	ND	ND	9.88	ND	ND	0.0	18.2	18.5	520	453	470	2.70	2710	BQL(0.012)	633	623	ND	10.9
ND	ND	ND	ND	7.90	ND	ND	0.1	13.7	13.0	927	217	229	0.859	846	BQL(0.005)	745	722	ND	12.2
ND	0.499	3.79	3.95	3,830	4,300	92.6	2.0	10.8	11.5	113	26.3	28.6	0.162	169	ND	169	174	ND	0.690
ND	0.424	0.395	0.40	434	ND	98.9	0.3	10.3	10.2	129	25.6	25.6	0.108	105	ND	188	184	ND	0.749
ND	ND	ND	ND	3.55	ND	ND	0.0	10.4	11.9	67.0	101	111	ND	ND	ND	81.7	87.3	ND	5.44
ND	ND	0.720	0.73	797	548	97.5	0.3	15.4	17.1	75.0	96.2	106	0.296	319	ND	107	111	ND	3.65
ND	ND	20.5	22.2	21,800	22,000	97.2	>5	18.7	18.9	116	126	140	1.48	1510	ND	158	160	ND	5.88
ND	ND	8.37	8.17	9,080	8,850	39.2	>5	18.2	17.8	124	118	125	1.83	1850	ND	88.1	86.7	ND	3.83
BQL(0.007)	ND	1.23	1.35	1,440	1,200	100	1.0	17.6	16.7	169	106	110	0.541	519	ND	115	110	ND	4.11
ND	ND	ND	0.02	11.9	ND	0.0	0.0	22.3	21.1	192	77.9	81.1	0.236	225	ND	143	136	ND	3.27
ND	ND	1.57	1.50	1,830	1,670	100	1.5	18.5	17.8	170	117	122	0.552	541	ND	118	113	ND	4.17
ND	ND	1.49	1.49	1,800	1,510	98.0	1.0	14.9	14.4	112	92.0	96.9	0.985	973	ND	96.0	94.1	ND	2.74
ND	0.251	ND	0.09	9.42	ND	3.4	0.0	12.3	12.2	97.2	17.3	18.1	0.068	71.1	ND	182	181	ND	0.585
ND	0.491	0.353	0.37	402	ND	98.3	0.0	14.3	14.1	108	41.5	42.8	0.162	158	ND	98.1	98.2	ND	1.37
ND	0.496	0.147	0.16	165	ND	39	0.1	8.73	8.10	118	9.56	9.80	0.058	54.3	ND	266	252	ND	0.306
ND	BQL (0.152)	0.113	0.13	126	ND	35	0.2	12.3	11.4	125	33.1	32.5	0.157	142	ND	164	156	ND	0.906
ND	0.312	0.202	0.15	222	ND	94.3	0.2	11.1	12.9	72.3	34.9	38.9	0.054	57.4	ND	166	178	ND	0.914
ND	0.248	ND	ND	12.0	ND	ND	0.0	11.2	12.7	61.1	48.0	56.7	0.582	627	ND	132	145	ND	1.67
ND	0.460	ND	ND	9.26	ND	ND	0.0	8.81	10.3	50.2	20.4	23.0	0.070	75	ND	200	217	ND	0.667
ND	0.565	BQL(0.045)	0.05	56.5	ND	100.0	0.0	9.06	10.4	46.0	21.9	24.7	0.083	90.3	ND	202	221	ND	0.640
ND	0.558	0.109	0.11	133	ND	100.0	0.1	10.1	9.90	81.6	25.6	25.1	0.102	102	BQL(0.005)	193	180	ND	0.763
ND	0.535	0.128	0.14	154	ND	100.0	0.1	8.07	7.40	83.0	17.0	16.5	0.081	78.8	BQL(0.005)	231	212	ND	0.418
ND	0.817	ND	ND	5.10	ND	ND	0.0	4.42	5.20	28.6	3.48	4.00	ND	ND	ND	301	336	ND	0.092
ND	0.617	BQL(0.051)	0.05	62.2	ND	92.0	0.0	7.16	7.80	63.9	14.1	14.8	0.044	46	BQL(0.006)	164	172	ND	0.429
ND	0.650	0.070	0.08	84.5	ND	86.7	0.0	7.99	7.50	117	15.8	15.9	0.060	60.2	ND	198	188	ND	0.507
ND	0.844	0.747	0.73	876	756	100.0	0.5	7.30	7.90	174	26.9	29.7	BQL(0.008)	9.4	0.025	346	351	ND	0.603
ND	ND	ND	0.02	18.1	ND	0.0	0.1	8.42	8.00	232	31.7	31.4	ND	3.9	BQL(0.006)	346	338	ND	0.345

USEPA-OES Lead (Pb) mg/L	USEPA-ICPMS Lead (Pb) µg/L	USEPA-OES Antimony (Sb) mg/L	USEPA-OES Selenium (Se) mg/L	USEPA-ICPMS Selenium (Se) µg/L	USGS-ICPMS Selenium (Se) µg/L	USEPA-IC Sulfate(SO$_4$) mg/L	USGS-ICPMS Sulfate(SO$_4$) mg/L	U of A ^{34}S ‰	USEPA-OES Strontium (Sr) mg/L	USGS-ICPMS Strontium (Sr) µg/L	USEPA-OES Titanium (Ti) mg/L	USEPA-OES Thallium (Tl) mg/L	USEPA-ICPMS Uranium (U) µg/L	USGS-ICPMS Uranium (U) µg/L	NAU-ICPMS Uranium (U) µg/L	NAU-ICPMS ^{234}U/^{238}U Activity Ratio	NAU-ICPMS ^{234}U/^{238}U Activity Ratio - 1 SD	USEPA-OES Vanadium (V) mg/L	USEPA-ICPMS Vanadium (V) µg/L	USEPA-OES Zinc (Zn) mg/L
0.005	0.027	0.005	0.009	0.060	10	0.103	20		0.001	5.0	0.002	0.005	0.002	10.0	0.010			0.003	0.002	0.015
0.017	0.090	0.017	0.030	0.198		1.00			0.004		0.007	0.017	0.007					0.010	0.006	0.050
ND	ND	BQL(0.009)	BQL(0.020)	24.4	28.2	1,830	1,900	7.5	8.49	8,830	ND	0.158	54.5	59.9	53.9	1.36	0.01	ND	0.393	0.086
ND	ND	BQL(0.012)	ND	2.66	ND	3,560	4,000	5.2	10.4	11,000	ND	0.114	36.1	38.5	34.4	1.49	0.01	ND	1.91	0.073
ND	ND	ND	BQL(0.017)	22.0	22.4	3,310	3,500	-11.4	4.36	4,780	ND	0.136	5.25	ND	5.28	1.90	0.02	ND	0.488	0.079
ND	ND	ND	ND	0.585	ND	511	560	-4.1	1.78	1,870	ND	0.021	0.064	ND	0.01	81.4	8.44	ND	0.157	BQL(0.021)
ND	ND	ND	ND	0.561	ND	551	580	-4.6	2.05	2,140	ND	0.024	0.039	ND	0.03	45.8	5.56	ND	0.093	BQL(0.021)
ND	ND	ND	BQL(0.012)	18.0	14	1,660	1,800	6.4	7.78	7,990	ND	0.153	13.7	18.4	13.3	1.84	0.02	ND	0.400	0.085
ND	BQL(0.035)	ND	ND	0.555	ND	1,340	1,400	4.2	6.41	6,380	ND	0.106	2.34	ND	2.86	6.42	0.03	ND	0.126	0.069
ND	ND	BQL(0.005)	ND	0.703	ND	1,810	2,000	-17.8	6.76	7,480	ND	0.121	1.76	ND	2.08	4.13	0.05	ND	0.142	0.079
ND	0.647	ND	ND	0.521	ND	1,430	1,500	-7.1	4.94	5,150	ND	0.107	1.56	ND	1.60	7.51	0.03	ND	0.060	2.32
ND	ND	BQL(0.007)	ND	0.838	ND	1,350	1,300	-15.8	6.60	6,840	ND	0.103	14.5	16.4	13.7	4.07	0.04	ND	0.582	0.068
ND	ND	BQL(0.008)	ND	1.14	ND	1,250	1,200	-10.4	7.13	7,500	ND	0.090	6.28	ND	6.34	3.76	0.02	ND	0.638	0.061
ND	ND	ND	ND	0.883	ND	1,460	1,500	-15.5	7.37	7,710	ND	0.117	22.1	24.1	24.7	4.07	0.02	ND	0.873	0.067
ND	ND	ND	ND	0.567	ND	1,140	1,200	-5.6	3.80	3,940	ND	0.089	53.1	54.1	49.7	1.72	0.01	ND	0.762	0.054
ND	ND	ND	ND	0.682	ND	413	410	-0.1	1.20	1,220	ND	0.021	0.021	ND	0.01	15.5	1.58	ND	0.090	BQL(0.018)
ND	ND	ND	ND	0.459	ND	520	550	-7.3	2.87	3,010	ND	0.044	1.54	ND	1.80	2.95	0.02	ND	ND	BQL(0.030)
ND	ND	ND	ND	0.615	ND	521	510	-4.0	0.760	784	ND	ND	0.092	ND	0.08	15.9	0.80	ND	0.144	ND
ND	ND	ND	ND	0.512	ND	566	530	-6.6	2.72	2,890	ND	0.018	0.518	ND	0.54	8.78	0.05	ND	0.106	BQL(0.026)
ND	ND	BQL(0.007)	ND	0.458	ND	581	610	-7.3	2.86	2,900	ND	0.021	0.087	ND	0.08	18.4	0.38	ND	0.140	BQL(0.030)
ND	ND	BQL(0.007)	ND	1.14	ND	725	770	-2.9	2.41	2,370	ND	0.044	8.29	12.9	7.91	4.85	0.04	ND	0.558	BQL(0.042)
ND	ND	ND	ND	4.71	ND	508	520	-3.6	1.19	1,240	ND	0.019	5.61	10.2	5.31	6.10	0.01	ND	3.27	BQL(0.019)
ND	ND	ND	ND	0.795	ND	506	540	-3.8	1.20	1,240	ND	0.018	9.35	14.2	8.99	5.33	0.03	ND	0.230	BQL(0.018)
ND	ND	BQL(0.005)	ND	0.562	ND	580	520	-4.3	1.41	1,420	ND	BQL(0.013)	4.22	ND	4.16	6.44	0.04	ND	0.136	BQL(0.039)
ND	ND	BQL(0.006)	ND	0.540	ND	568	480	-3.8	0.926	959	ND	BQL(0.007)	2.86	ND	2.82	3.33	0.04	ND	0.109	ND
ND	BQL(0.038)	ND	ND	5.77	ND	291	320	24.1	0.251	258	ND	ND	0.046	ND	0.02	2.67	0.76	ND	0.634	ND
ND	ND	ND	ND	0.357	ND	395	370	-4.2	0.890	913	ND	BQL(0.009)	2.82	ND	2.91	6.01	0.04	ND	1.43	ND
ND	BQL(0.034)	ND	ND	0.466	ND	463	440	-4.0	1.12	1,190	ND	BQL(0.011)	0.079	ND	0.08	18.9	0.38	ND	0.092	ND
ND	ND	BQL(0.008)	ND	2.00	ND	936	940	7.2	1.98	2,040	ND	BQL(0.017)	BQL(0.006)	ND	0.01	4.08	0.24	ND	0.224	ND
ND	ND	ND	ND	1.49	ND	939	940	-9.4	2.39	2,460	ND	BQL(0.014)	0.011	ND	ND	ND	ND	ND	0.203	ND

USGS-ICPMS Zinc (Zn) µg/L	USEPA-OES Silicon (Si) mg/L	USGS-ICPMS Silicon (Si) as SiO_2 mg/L	USGS-ICPMS Silicon (Si) mg/L
30	0.130	2.0	0.93
	0.434		
ND	7.51	13	6.1
ND	8.83	16	7.5
ND	5.27	9.7	4.5
ND	4.19	8.4	3.9
ND	4.22	8.6	4.0
ND	6.95	14	6.5
ND	4.22	8.2	3.8
ND	3.38	6.9	3.2
2390	4.43	8.6	4.0
ND	4.85	9.4	4.4
ND	3.32	6.4	3.0
ND	4.90	9.3	4.3
ND	4.86	8.6	4.0
ND	4.20	8.2	3.8
ND	5.13	10	4.7
ND	4.65	8.8	4.1
ND	4.27	8.1	3.8
ND	4.44	9.4	4.4
ND	4.26	8.8	4.1
ND	4.28	8.3	3.9
ND	4.01	8.4	3.9
34.3	4.14	6.7	3.1
ND	4.03	7.2	3.4
ND	4.21	9.1	4.3
ND	4.41	8.3	3.9
ND	4.25	7.9	3.7
ND	3.55	6.4	3.0
ND	1.54	3.1	1.4