

Table 7. Summary statistics for selected trace constituents for samples collected from ground- and surface-water sites at the Columbia/Eagle Bluffs Wetland Complex

[As, arsenic; Ba, barium; B, boron; Fe, iron; Li, lithium; Mn, manganese; Sr, strontium; <, less than; --, no data; EB, Eagle Bluffs]

	As Pre- effluent	As Post- effluent	Ba Pre- effluent	Ba Post- effluent	B Pre- effluent	B Post- effluent	Fe Pre- effluent	Fe Post- effluent	Li Pre- effluent	Li Post- effluent	Mn Pre- effluent	Mn Post- effluent	Sr Pre- effluent	Sr Post- effluent
MW1-1A														
Minimum	29	6.0	65	40	40	30	22,000	23,000	20	18	2,500	3,000	360	400
Mean	36	15	96	47	44	45	23,200	25,200	21	23	3,140	3,378	428	457
Median	34	13	91	46	40	47	23,000	25,400	21	23	3,300	3,350	450	457
Maximum	48	35	130	57	50	60	25,000	27,000	23	33	3,300	3,800	470	501
MW1-1B														
Minimum	1.0	< 1.0	500	406	80	61	33,000	33,000	20	17	2,000	2,100	1,000	890
Mean	1.2	< 1.0	518	442	90	78	35,000	35,178	22	22	2,200	2,203	1,020	951
Median	1.0	< 1.0	520	434	90	80	36,000	34,900	22	22	2,200	2,200	1,000	956
Maximum	2.0	1.0	540	520	100	84	37,000	38,000	24	25	2,500	2,340	1,100	1,000
MW1-2A														
Minimum	1.0	1.0	350	410	40	40	910	1,900	11	9.0	300	350	160	180
Mean	1.8	1.9	374	560	40	109	1,682	2,939	13	17	356	507	174	227
Median	2.0	2.0	380	560	40	87	1,800	2,800	13	17	350	487	170	223
Maximum	2.0	3.0	390	710	40	239	2,100	4,700	15	20	460	700	200	290
MW1-2B														
Minimum	< 1.0	< 1.0	760	850	70	60	5,200	6,600	18	19	240	260	250	240
Mean	< 1.0	< 1.0	848	1,161	74	75	6,300	8,789	21	24	284	351	258	318
Median	< 1.0	< 1.0	860	1,200	70	74	6,400	9,000	21	25	260	353	260	337
Maximum	< 1.0	2.0	890	1,410	80	90	7,100	10,400	23	28	410	427	270	372
MW1-3A														
Minimum	9.0	7.0	320	340	30	30	6,600	5,800	18	16	510	330	520	445
Mean	11	10	330	391	54	54	7,560	6,594	20	19	588	388	544	484
Median	11	10	330	388	60	54	6,900	6,300	19	19	600	373	540	485
Maximum	14	13	340	446	60	70	9,200	9,400	22	21	630	490	580	560

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	As Pre- effluent	As Post- effluent	Ba Pre- effluent	Ba Post- effluent	B Pre- effluent	B Post- effluent	Fe Pre- effluent	Fe Post- effluent	Li Pre- effluent	Li Post- effluent	Mn Pre- effluent	Mn Post- effluent	Sr Pre- effluent	Sr Post- effluent
MW1-3B														
Minimum	< 1.0	< 1.0	500	540	40	46	2,400	4,200	11	7.0	260	210	250	230
Mean	4.5	< 1.0	550	622	62	51	3,500	4,806	14	15	348	244	266	272
Median	4.5	< 1.0	570	570	50	50	3,800	4,450	13	15	320	235	260	250
Maximum	6.0	2.0	600	826	120	59	3,900	6,200	16	19	430	304	310	360
MW1-4A														
Minimum	< 1.0	< 1.0	150	167	50	30	52	53	41	43	490	490	460	520
Mean	< 1.0	< 1.0	168	176	53	50	81	109	46	47	566	535	493	557
Median	< 1.0	< 1.0	160	177	50	52	86	110	47	47	560	535	480	558
Maximum	3.0	2.0	190	190	60	57	120	180	49	51	640	610	550	589
MW1-4B														
Minimum	31	25	250	269	110	87	5,700	6,100	17	16	250	214	400	390
Mean	33	49	281	281	114	111	6,789	6,822	19	20	284	234	410	428
Median	33	31	290	280	110	110	6,800	6,950	18	19	290	233	410	426
Maximum	36	340	300	300	120	130	7,700	7,400	22	27	310	270	430	510
MW2-1A														
Minimum	< 1.0	< 1.0	360	450	40	40	3.0	240	17	22	56	63	380	400
Mean	1.0	1.0	422	499	52	58	109	357	24	27	102	104	444	467
Median	1.0	1.0	430	500	50	60	130	375	23	28	97	100	440	476
Maximum	1.0	2.0	470	543	60	65	230	460	28	31	200	160	520	551
MW2-1B														
Minimum	< 1.0	< 1.0	1,100	30	50	67	7,500	11,000	35	34	300	310	600	570
Mean	< 1.0	< 1.0	1,178	1,245	73	76	10,056	12,456	38	40	509	323	633	692
Median	< 1.0	< 1.0	1,200	1,305	70	77	10,000	12,150	37	41	400	320	640	700
Maximum	1.0	1.0	1,300	1,480	90	87	12,000	14,000	41	45	1,100	350	650	788

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	As Pre- effluent	As Post- effluent	Ba Pre- effluent	Ba Post- effluent	B Pre- effluent	B Post- effluent	Fe Pre- effluent	Fe Post- effluent	Li Pre- effluent	Li Post- effluent	Mn Pre- effluent	Mn Post- effluent	Sr Pre- effluent	Sr Post- effluent
MW2-2A														
Minimum	--	2.0	--	208	--	39	--	9,200	--	9.0	--	480	--	190
Mean	--	4.2	--	244	--	74	--	19,675	--	11	--	843	--	319
Median	--	4.0	--	223	--	76	--	21,000	--	11	--	842	--	330
Maximum	--	7.0	--	510	--	90	--	24,000	--	15	--	1,200	--	364
MW2-2B														
Minimum	--	3.0	--	210	--	30	--	4,000	--	9.0	--	400	--	170
Mean	--	4.1	--	504	--	42	--	10,487	--	12	--	539	--	203
Median	--	4.0	--	511	--	40	--	11,000	--	12	--	530	--	198
Maximum	--	6.0	--	626	--	71	--	20,000	--	15	--	780	--	320
MW3-1A														
Minimum	--	< 1.0	--	190	--	50	--	6.0	--	20	--	235	--	670
Mean	--	< 1.0	--	209	--	60	--	20	--	29	--	272	--	728
Median	--	< 1.0	--	210	--	60	--	11	--	29	--	268	--	725
Maximum	--	2.0	--	230	--	70	--	67	--	34	--	340	--	842
MW3-1B														
Minimum	--	< 1.0	--	640	--	70	--	11,000	--	35	--	489	--	770
Mean	--	< 1.0	--	684	--	78	--	11,800	--	42	--	523	--	816
Median	--	< 1.0	--	686	--	76	--	11,950	--	42	--	512	--	815
Maximum	--	< 1.0	--	730	--	97	--	12,500	--	45	--	600	--	867
MW4-1A														
Minimum	3.0	4.0	360	435	80	88	1,700	11,000	33	41	750	1,180	920	988
Mean	11	5.1	464	571	103	107	12,850	13,041	43	50	1,094	1,390	1,076	1,246
Median	12	5.0	470	572	105	109	13,750	12,800	45	50	1,100	1,400	1,100	1,220
Maximum	19	9.0	560	650	130	119	25,000	16,500	51	56	1,400	1,540	1,200	1,400

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	As Pre- effluent	As Post- effluent	Ba Pre- effluent	Ba Post- effluent	B Pre- effluent	B Post- effluent	Fe Pre- effluent	Fe Post- effluent	Li Pre- effluent	Li Post- effluent	Mn Pre- effluent	Mn Post- effluent	Sr Pre- effluent	Sr Post- effluent
MW4-1B														
Minimum	< 1.0	< 1.0	1,400	1,210	100	88	15,000	16,000	43	40	370	350	850	940
Mean	3.4	2.3	1,438	1,473	115	102	21,250	21,472	47	46	595	597	975	1,038
Median	3.0	2.5	1,400	1,505	110	101	21,500	21,350	47	47	620	613	950	1,025
Maximum	6.0	4.0	1,600	1,660	130	130	28,000	27,000	49	53	790	852	1,100	1,210
MW4-2A														
Minimum	4.0	4.0	340	63	50	76	3,700	8,200	45	37	1,700	1,500	950	860
Mean	5.5	4.9	370	341	94	89	9,700	11,161	47	42	2,013	1,852	1,000	1,000
Median	6.0	5.0	370	362	100	90	9,800	11,700	47	42	2,050	1,890	995	1,000
Maximum	7.0	6.0	390	406	110	100	13,000	13,900	48	49	2,200	2,100	1,100	1,110
MW4-2B														
Minimum	< 1.0	< 1.0	950	1,040	100	100	9,000	11,000	37	45	400	490	870	1,000
Mean	< 1.0	< 1.0	1,004	1,209	104	105	13,263	17,833	41	47	648	856	940	1,107
Median	< 1.0	< 1.0	980	1,200	100	102	13,500	18,050	41	47	665	900	940	1,100
Maximum	< 1.0	< 1.0	1,100	1,500	110	113	18,000	21,100	45	51	880	1,120	1,000	1,200
MW13-67														
Minimum	< 1.0	--	550	--	70	--	4,700	--	26	--	160	--	370	--
Mean	< 1.0	--	620	--	83	--	5,450	--	28	--	190	--	425	--
Median	< 1.0	--	635	--	85	--	5,650	--	28	--	195	--	440	--
Maximum	< 1.0	--	660	--	90	--	5,800	--	31	--	210	--	450	--
USGS-1														
Minimum	3.0	2.0	210	190	50	40	310	770	19	19	160	210	580	550
Mean	3.9	4.7	229	249	61	59	1,264	2,237	24	27	280	329	644	708
Median	4.0	5.0	230	265	60	61	1,350	2,500	25	30	270	340	645	750
Maximum	5.0	7.0	250	280	70	73	1,900	3,600	29	31	400	408	710	790

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USGS-2D														
Minimum	< 1.0	< 1.0	1,100	830	100	91	19,000	21,000	39	36	830	1,120	1,000	889
Mean	< 1.0	< 1.0	1,238	1,208	111	109	27,750	28,377	43	43	1,604	1,383	1,100	1,086
Median	< 1.0	< 1.0	1,200	1,200	110	110	28,500	27,300	42	44	1,700	1,310	1,100	1,100
Maximum	2.0	2.0	1,600	1,400	130	123	30,000	34,000	47	47	1,800	1,700	1,200	1,300
USGS-2S														
Minimum	32	17	300	230	90	73	20,000	18,000	31	30	1,100	1,070	830	800
Mean	36	26	351	328	108	84	23,750	25,262	36	35	1,375	1,262	909	881
Median	36	23	355	338	100	83	24,000	25,000	36	35	1,400	1,200	910	870
Maximum	41	39	390	380	150	90	27,000	31,000	38	37	1,600	1,600	990	960
USGS-3D														
Minimum	29	17	570	550	80	74	20,000	21,000	27	28	1,000	888	1,100	960
Mean	32	25	632	726	91	87	22,778	25,186	32	36	1,144	1,449	1,233	1,146
Median	32	25	630	725	90	88	23,000	25,150	32	37	1,100	1,430	1,200	1,185
Maximum	38	39	720	903	100	99	25,000	29,000	35	42	1,300	2,000	1,300	1,300
USGS-3S														
Minimum	24	19	170	160	50	60	8,900	6,700	15	14	920	760	650	680
Mean	34	44	254	242	73	86	14,767	13,107	22	19	1,252	1,022	950	853
Median	36	28	270	241	80	90	16,000	13,000	22	19	1,300	1,030	1,000	843
Maximum	41	260	320	300	90	114	19,000	17,000	28	23	1,600	1,200	1,100	1,000
USGS-4														
Minimum	< 1.0	< 1.0	460	400	110	100	16,000	13,000	39	40	2,900	2,500	1,300	1,070
Mean	< 1.0	< 1.0	516	431	133	115	17,750	14,520	45	44	3,338	2,747	1,388	1,123
Median	< 1.0	< 1.0	520	420	140	110	18,000	14,000	43	43	3,300	2,700	1,400	1,100
Maximum	1.0	1.0	540	510	140	140	19,000	17,000	53	51	3,700	3,230	1,500	1,300

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USGS-5D														
Minimum	2.0	1.0	520	400	80	74	17,000	11,300	26	20	2,000	1,400	820	600
Mean	6.3	4.1	661	542	88	81	21,500	17,567	30	27	2,513	2,017	1,083	857
Median	6.0	5.0	650	543	90	80	21,000	15,400	31	28	2,600	2,040	1,100	872
Maximum	11	8.0	790	680	100	91	25,000	26,000	34	31	2,900	2,500	1,200	1,100
USGS-5S														
Minimum	< 1.0	< 1.0	220	240	40	60	7.0	3.8	26	32	240	240	810	820
Mean	< 1.0	< 1.0	274	331	61	68	148	6.7	34	34	399	420	844	879
Median	< 1.0	< 1.0	270	340	60	69	10	5.0	34	34	375	420	840	880
Maximum	< 1.0	1.0	330	418	70	80	820	14	39	35	710	644	880	938
USGS-6														
Minimum	52	21	410	300	120	54	31,000	18,700	11	7.0	1,900	1,840	1,100	738
Mean	59	42	487	430	137	99	39,556	34,087	13	14	2,211	2,295	1,267	1,093
Median	57	41	470	382	140	98	39,000	31,000	13	14	2,200	2,200	1,200	980
Maximum	72	72	620	630	150	140	49,000	56,000	16	19	2,500	3,100	1,500	1,600
USGS-7														
Minimum	< 1.0	< 1.0	580	322	60	53	9,300	4,800	33	19	1,000	867	870	441
Mean	< 1.0	< 1.0	603	514	88	79	9,850	8,320	34	29	1,150	1,166	898	744
Median	< 1.0	< 1.0	590	530	90	80	9,750	8,500	34	32	1,100	1,200	890	760
Maximum	< 1.0	< 1.0	640	650	110	105	11,000	11,000	37	36	1,500	1,400	940	940
USGS-8D														
Minimum	< 1.0	< 1.0	600	553	50	50	8,800	8,300	28	25	420	250	780	704
Mean	< 1.0	< 1.0	631	596	66	65	9,533	9,088	33	32	469	456	799	767
Median	< 1.0	< 1.0	620	581	70	66	9,600	9,200	33	33	480	473	790	770
Maximum	< 1.0	< 1.0	670	710	80	77	10,000	9,600	35	36	520	520	830	810

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USGS-8S														
Minimum	< 1.0	< 1.0	260	199	50	50	35	4.0	32	25	380	140	1,000	816
Mean	< 1.0	< 1.0	274	227	58	55	111	24	35	31	463	294	1,111	1,019
Median	< 1.0	< 1.0	270	230	60	55	56	12	35	30	460	280	1,100	1,000
Maximum	1.0	1.0	310	260	70	63	410	72	40	45	630	470	1,200	1,200
USGS-9D														
Minimum	< 1.0	< 1.0	430	460	20	10	8,300	8,400	9.0	8.0	290	280	190	180
Mean	< 1.0	< 1.0	488	529	24	26	8,644	9,041	10	11	309	306	196	196
Median	< 1.0	< 1.0	490	540	20	27	8,700	9,100	11	11	310	302	190	200
Maximum	< 1.0	1.0	540	580	30	40	9,100	9,900	11	12	330	330	210	210
USGS-9S														
Minimum	5.0	5.0	340	410	30	30	5.0	4.0	4.0	4.0	7.0	5.0	180	190
Mean	7.9	9.9	390	434	44	44	14	5.3	5.3	5.7	24	22	184	231
Median	8.0	8.0	360	430	50	47	14	5.0	5.0	5.0	10	21	180	240
Maximum	14.0	21.0	460	480	60	54	24	7.0	7.0	9.0	55	39	190	277
Blew hole														
Minimum	< 1.0	< 1.0	84	160	20	60	7.0	8.0	4.0	7.0	120	9	110	510
Mean	3.5	3.9	147	242	56	79	216	21	12	18	1,106	1,747	383	794
Median	2.5	3.0	130	250	60	85	25	16	13	19	340	1,930	360	840
Maximum	10	12	250	324	110	93	1,000	48	18	23	2,800	3,500	850	932
Perche Creek														
Minimum	< 1.0	< 1.0	86	57	40	22	6.0	8.7	5.0	6.0	160	48	170	76
Mean	2.6	1.8	112	133	99	49	195	120	12	9.9	466	462	231	215
Median	2.0	1.0	120	130	70	52	14	63	11	9.0	350	400	230	243
Maximum	5.0	4.0	130	230	210	70	1,600	600	22	17	1,000	1,200	310	360

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City Outflow														
Minimum	--	< 1.0	--	30	--	215	--	39	--	22	--	51	--	237
Mean	--	< 1.0	--	44	--	240	--	68	--	27	--	145	--	281
Median	--	< 1.0	--	42	--	233	--	65	--	25	--	130	--	280
Maximum	--	1.0	--	69	--	265	--	100	--	37	--	375	--	340
EB Outflow														
Minimum	--	1.0	--	53	--	139	--	4.0	--	19	--	1.4	--	244
Mean	--	2.3	--	64	--	196	--	9.5	--	30	--	7.4	--	305
Median	--	2.0	--	61	--	189	--	10.5	--	24	--	6.2	--	301
Maximum	--	4.0	--	88	--	291	--	13	--	55	--	14	--	393