

Appendix 2A-2: WY2001 Water Quality Monitoring Results

Parameter (Units)	Class III Criteria	Region	Class	N	Mean	Std. Deviation	Min.	Max
Alkalinity (mg/L)	>20	Refuge	Inflow	105	228	68	108	391
			Interior	170	136	94	10	345
			Outflow	60	209	80	62	381
			Rim	48	245	59	116	346
		WCA-2	Inflow	59	238	73	102	381
			Interior	198	222	67	78	462
			Outflow	61	198	39	84	304
		WCA-3	Inflow	138	228	50	106	366
			Interior	74	180	61	71	320
			Outflow	116	171	41	91	275
		Park	Inflow	130	176	36	103	258
			Interior	80	163	37	76	264
Conductivity (µmhos/cm)	<1,275	Refuge	Inflow	231	979	258	313	1461
			Interior	309	438	334	8	1412
			Outflow	72	765	249	168	1287
			Rim	70	913	213	444	1420
		WCA-2	Inflow	73	836	240	388	1466
			Interior	248	815	318	159	2535
			Outflow	61	762	163	300	1114
		WCA-3	Inflow	237	726	159	263	1558
			Interior	163	494	207	149	1150
			Outflow	204	439	127	211	749
		Park	Inflow	258	455	110	250	697
			Interior	79	461	143	243	1016

Parameter (Units)	Class III Criteria	Region	Class	N	Mean	Std. Deviation	Min.	Max
Dissolved Oxygen (mg/L)	>5	Refuge	Inflow	231	3.76	2.27	0.08	13.51
			Interior	267	2.74	1.80	0.19	9.68
			Outflow	73	4.31	2.17	0.47	9.73
			Rim	59	4.29	1.88	1.20	8.46
		WCA-2	Inflow	74	4.27	2.10	0.47	9.73
			Interior	239	3.21	1.97	0.13	9.44
			Outflow	61	4.70	2.09	0.90	8.58
		WCA-3	Inflow	237	4.19	2.17	0.52	9.79
			Interior	139	3.57	2.00	0.29	10.32
			Outflow	204	3.56	1.58	1.08	8.94
		Park	Inflow	258	3.93	1.68	0.30	8.67
			Interior	80	4.98	2.83	0.27	12.02
pH	>6.0, <8.5	Refuge	Inflow	231	7.46	0.30	5.15	8.57
			Interior	276	6.70	0.55	5.43	7.66
			Outflow	73	7.50	0.32	6.79	8.34
			Rim	61	7.50	0.21	7.20	8.15
		WCA-2	Inflow	74	7.54	0.31	6.91	8.34
			Interior	236	7.38	0.28	6.43	8.18
			Outflow	61	7.58	0.39	6.70	8.42
		WCA-3	Inflow	237	7.49	0.37	6.12	8.42
			Interior	136	7.21	0.26	6.54	8.29
			Outflow	204	7.33	0.19	6.76	8.21
		Park	Inflow	258	7.41	0.23	6.76	8.09
			Interior	80	7.62	0.30	6.98	8.42
Total Antimony (µg/L)	<4,300	WCA-3	Inflow	16	<2.2	0.00	<2.2	<2.2
Total Arsenic (µg/L)	<50	Refuge	Inflow	11	4.01	1.30	1.78	5.95
			Interior	10	<1	0.00	<1	<1
			Outflow	5	3.80	0.46	3.34	4.30
			Rim	4	3.00	1.66	1.80	5.40
		WCA-2	Inflow	6	3.71	1.23	<1.5	5.10
			Interior	4	2.09	0.55	1.30	2.58
			Outflow	5	1.50	0.00	<1.5	<1.5
		WCA-3	Inflow	25	2.01	0.87	<1.5	4.36
			Interior	6	2.01	1.10	<1	3.63
			Outflow	57	1.54	0.13	<1.5	2.34

Parameter (Units)	Class III Criteria	Region	Class	N	Mean	Std. Deviation	Min.	Max
Total Arsenic (µg/L)	<50	Park	Inflow	81	1.53	0.11	<1.5	2.34
			Interior	63	1.55	0.28	<1.5	3.56
Total Beryllium (µg/L)	<0.13	WCA-3	Inflow	4	0.80	0.08	<0.1	0.29
Total Cadmium (µg/L)	HB	Refuge	Inflow	14	0.30	0.01	<0.3	0.34
			Interior	10	<0.5	0.00	<0.5	<0.5
			Outflow	6	<0.3	0.00	<0.3	<0.3
			Rim	4	<0.5	0.00	<0.5	<0.5
		WCA-2	Inflow	7	<0.3	0.00	<0.3	<0.3
			Interior	4	0.35	0.10	<0.3	<0.5
			Outflow	5	<0.3	0.00	<0.3	<0.3
		WCA-3	Inflow	30	0.31	0.04	<0.3	0.46
			Interior	6	0.43	0.10	<0.3	<0.5
			Outflow	61	0.30	0.01	<0.3	0.39
		Park	Inflow	86	0.30	0.01	<0.3	0.35
			Interior	63	0.31	0.03	<0.3	0.53
Total Copper (µg/L)	HB	Refuge	Inflow	14	2.13	0.73	<1.2	3.45
			Interior	10	1.90	0.32	<1	<2
			Outflow	6	1.31	0.23	<1.2	1.77
			Rim	4	1.50	0.58	<1	<2
		WCA-2	Inflow	7	1.60	0.50	<1.2	2.33
			Interior	4	1.78	0.73	<1.2	2.72
			Outflow	5	1.36	0.35	<1.2	1.98
		WCA-3	Inflow	30	1.35	0.51	<1.2	3.87
			Interior	6	1.88	0.33	<1.2	2.06
			Outflow	61	1.22	0.10	<1.2	1.83
		Park	Inflow	86	1.21	0.08	<1.2	1.83
			Interior	63	1.42	0.94	<1.2	7.58
Total Iron (mg/L)	<1	Refuge	Inflow	30	0.28	0.27	0.02	1.02
			Interior	57	0.07	0.06	<0.001	0.21
			Outflow	22	0.06	0.08	0.01	0.39
			Rim	15	0.19	0.25	0.02	0.95
		WCA-2	Inflow	21	0.07	0.09	0.01	0.39
			Interior	22	0.02	0.01	<0.001	0.06
			Outflow	14	0.05	0.08	<0.001	0.33

Parameter (Units)	Class III Criteria	Region	Class	N	Mean	Std. Deviation	Min.	Max
Total Iron (mg/L)	<1	WCA-3	Inflow	46	0.11	0.11	0.02	0.44
			Interior	29	0.20	0.18	<0.001	0.74
			Outflow	79	0.12	0.06	0.03	0.29
		Park	Inflow	108	0.15	0.08	0.02	0.42
			Interior	63	0.37	0.50	<0.001	2.03
Total Lead (µg/L)	HB	Refuge	Inflow	11	<0.8	0.02	<0.8	0.85
			Interior	10	1.90	0.32	<1	<2
			Outflow	5	<0.8	0.0	<0.8	<0.8
			Rim	4	1.50	0.58	<1	<2
		WCA-2	Inflow	6	<0.8	0.0	<0.8	<0.8
			Interior	4	1.1	0.6	<0.8	<2
			Outflow	5	<0.8	0.0	<0.8	<0.8
		WCA-3	Inflow	25	<0.8	0.0	<0.8	<0.8
			Interior	6	1.6	0.62	<0.8	<2
			Outflow	57	<0.8	0.0	<0.8	<0.8
		Park	Inflow	81	<0.8	0.0	<0.8	<0.8
			Interior	63	<0.8	0.0	<0.8	<0.8
Total Nickel (µg/L)	HB	WCA-3	Inflow	16	0.66	0.28	<0.5	1.39
Total Selenium (µg/L)	<5	WCA-3	Inflow	16	1.04	0.14	<1	1.56
Total Silver (µg/L)	<0.07	Refuge	Inflow	10	0.06	0.01	<0.05	0.074
		WCA-3	Inflow	16	<0.05	0.0	<0.05	<0.05
Total Thallium (µg/L)	<6.3	WCA-3	Inflow	16	<0.5	0.0	<0.5	<0.5
Total Zinc (µg/L)	HB	Refuge	Inflow	14	<4	0.0	<4	<4
			Interior	10	1.90	0.32	<1	<2
			Outflow	6	<4	0.0	<4	<4
			Rim	4	6.03	7.43	<1.5	17.00
		WCA-2	Inflow	7	5.69	4.47	<4	15.83
			Interior	4	3.50	1.00	<2	<4
			Outflow	5	6.54	3.98	<4	13.09
		WCA-3	Inflow	30	8.72	13.23	<4	59.92
			Interior	6	2.67	1.03	<2	<4
			Outflow	60	4.18	0.91	<4	10.50
		Park	Inflow	86	4.20	0.84	<4	10.50
			Interior	62	4.12	0.62	<4	8.56

Parameter (Units)	Class III Criteria	Region	Class	N	Mean	Std. Deviation	Min.	Max
Turbidity (NTU)	<29	Refuge	Inflow	105	7.24	7.39	0.74	46.40
			Interior	84	0.90	0.60	0.36	3.50
			Outflow	60	4.53	4.20	0.77	18.70
			Rim	24	10.33	9.69	1.60	35.00
		WCA-2	Inflow	58	5.75	5.78	0.46	27.40
			Interior	68	1.06	1.23	0.34	7.15
			Outflow	61	1.94	2.12	0.27	12.40
		WCA-3	Inflow	138	3.09	3.73	0.35	32.90
			Interior	74	2.25	3.98	0.32	32.50
			Outflow	116	1.73	1.12	0.43	5.10
		Park	Inflow	130	1.63	0.90	0.43	5.20
			Interior	80	1.99	2.33	0.40	13.40
Un-ionized NH ₄ (mg/L)	<0.02	Refuge	Inflow	104	0.003	0.01	0.0001	0.053
			Interior	168	0.0005	0.001	0.000002	0.014
			Outflow	58	0.002	0.004	0.00004	0.026
			Rim	47	0.003	0.004	0.0002	0.022
		WCA-2	Inflow	57	0.002	0.004	0.0001	0.026
			Interior	178	0.002	0.004	0.00004	0.024
			Outflow	61	0.003	0.01	0.00004	0.061
		WCA-3	Inflow	157	0.003	0.01	0.0001	0.061
			Interior	73	0.001	0.001	0.0001	0.008
			Outflow	115	0.001	0.002	0.0001	0.012
		Park	Inflow	130	0.002	0.001	0.0001	0.005
			Interior	73	0.003	0.004	0.0002	0.027

These tables summarize WY2001 water quality monitoring results for parameters listed in Section 62-302.530, F.A.C. Only parameters analyzed during the water year for a given region and class are included. A value of "HB" in the Class III Criterion column indicates the criterion for the given parameter is hardness based.