

Appendix 3A-4: Annual Summary of Total Phosphorus Concentrations at Everglades Protection Area Monitoring Stations during Water Year 2008

Florida Department of Environmental Protection

Table 1. Annual summary of total phosphorus concentrations ($\mu\text{g/L}$) at the inflow, rim canal, interior marsh, and outflow monitoring stations in the Everglades Protection Area during Water Year 2008 (WY2008) (May 1, 2007–April 30, 2008).

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
Everglades National Park	Inflow	S12A	38	15.3	49.6	197.6	11.3	13.6	15.3	18.0	1235.1
	Inflow	S12B	16	13.0	15.8	7.1	9.0	10.5	13.0	21.3	32.0
	Inflow	S12C	28	14.9	15.6	5.1	7.0	11.1	14.9	19.8	24.6
	Inflow	S12D	25	12.0	12.3	2.9	9.0	10.0	12.0	13.5	20.0
	Inflow	S18C	52	5.0	5.9	3.5	3.0	4.0	5.0	6.4	24.0
	Inflow	S332D	21	6.0	5.9	1.2	4.0	5.0	6.0	6.0	9.0
	Inflow	S333	53	12.4	13.3	3.6	7.6	10.9	12.4	15.9	20.2
	Inflow	S355A	7	20.0	23.6	11.2	13.0	13.0	20.0	35.0	39.0
	Inflow	S355B	7	41.0	34.1	17.8	10.0	15.0	41.0	50.0	53.0
	Interior	EP	8	3.0	3.1	1.0	2.0	2.3	3.0	3.8	5.0
	Interior	NE1	10	6.5	6.9	1.6	5.0	5.8	6.5	8.0	10.0
	Interior	NP201	7	5.0	8.4	10.0	4.0	4.0	5.0	6.0	31.0
	Interior	P33	9	6.0	8.0	3.7	4.0	4.5	6.0	12.0	13.0
	Interior	P34	9	5.0	5.0	1.4	3.0	4.0	5.0	6.5	7.0
	Interior	P35	7	7.0	7.4	3.7	4.0	5.0	7.0	8.0	15.0
	Interior	P36	10	6.0	6.4	2.5	4.0	4.8	6.0	7.0	13.0
	Interior	P37	8	3.0	3.0	1.2	1.0	2.3	3.0	3.8	5.0
	Interior	T24	3	5.0	5.8	1.4	5.0	5.0	5.0	7.5	7.5
	Interior	T33	6	9.5	9.7	2.5	7.0	7.0	9.5	12.3	13.0
	Interior	TSB	9	4.0	4.4	2.8	1.0	3.0	4.0	5.0	11.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
Arthur R. Marshall Loxahatchee National Wildlife Refuge	Inflow	ACME1DS	11	21.0	33.4	21.0	13.0	18.0	21.0	61.0	68.0
	Inflow	ENR012	52	34.0	64.9	131.6	23.0	29.0	34.0	50.5	928.5
	Inflow	G300	52	78.0	86.8	66.4	29.0	45.0	78.0	104.3	459.0
	Inflow	G301	51	87.0	94.4	52.3	24.0	62.0	87.0	127.0	266.0
	Inflow	G310	52	34.5	61.0	97.7	19.0	27.3	34.5	45.9	564.0
	Inflow	G94D	11	155.0	178.5	100.1	77.0	113.0	155.0	191.0	413.0
	Inflow	S362	56	20.0	21.7	6.0	13.0	17.0	20.0	25.4	37.0
	Interior	LOX10	9	8.0	8.6	2.5	7.0	7.0	8.0	8.5	15.0
	Interior	LOX11	12	7.0	7.7	2.5	4.0	6.3	7.0	9.8	13.0
	Interior	LOX12	10	8.5	8.3	2.9	4.0	6.0	8.5	10.5	13.0
	Interior	LOX13	10	7.0	7.7	3.2	4.0	6.0	7.0	8.3	16.0
	Interior	LOX14	11	7.0	7.2	2.0	4.0	6.0	7.0	9.0	11.0
	Interior	LOX15	10	7.5	7.6	1.4	6.0	6.8	7.5	8.0	11.0
	Interior	LOX16	10	7.5	8.1	2.8	4.0	6.0	7.5	11.0	13.0
	Interior	LOX3	10	8.5	8.8	1.2	7.0	8.0	8.5	10.0	11.0
	Interior	LOX4	10	8.5	10.3	4.1	6.0	7.0	8.5	14.0	17.0
	Interior	LOX5	10	8.0	8.0	1.2	7.0	7.0	8.0	8.0	11.0
	Interior	LOX6	10	5.0	5.9	2.3	4.0	4.0	5.0	7.0	10.0
	Interior	LOX7	10	8.0	7.9	1.4	6.0	6.8	8.0	9.0	10.0
	Interior	LOX8	11	10.0	10.3	2.1	8.0	9.0	10.0	11.0	15.0
	Interior	LOX9	10	8.0	8.1	1.4	6.0	7.0	8.0	8.5	11.0
	Interior	LOXA101	9	11.0	19.7	24.1	8.0	9.0	11.0	18.0	83.0
	Interior	LOXA105	11	12.0	16.4	11.0	9.0	11.0	12.0	18.0	47.0
	Interior	LOXA108	10	7.5	8.0	1.9	5.0	6.8	7.5	10.0	10.0
	Interior	LOXA124	10	11.0	15.5	11.6	8.0	8.0	11.0	20.3	45.0
	Interior	LOXA130	11	10.0	12.1	5.6	7.0	8.0	10.0	15.0	25.0
	Interior	LOXA137	13	10.0	9.8	3.3	6.0	7.0	10.0	12.0	17.0
	Interior	LOXA140	8	7.5	8.3	2.9	5.0	6.0	7.5	11.3	13.0
	Interior	X1	11	60.0	56.2	13.8	26.0	43.0	60.0	65.0	73.0
	Interior	X2	8	16.4	18.3	8.0	9.0	11.8	16.5	24.5	33.0
	Interior	X3	9	9.0	12.3	6.8	8.0	8.0	9.0	15.5	28.0
	Interior	X4	18	10.0	13.6	8.3	7.0	8.8	10.0	14.5	35.0
	Interior	Y4	10	8.0	10.5	5.8	6.0	6.8	8.0	13.3	24.0
	Interior	Z1	11	47.0	72.9	48.7	29.0	42.0	47.0	92.0	171.0
	Interior	Z2	9	14.0	19.6	12.2	11.0	12.0	14.0	25.5	48.5
	Interior	Z3	10	9.0	11.1	8.2	6.0	7.0	9.0	10.5	34.0
	Interior	Z4	10	7.5	8.1	3.5	5.0	5.0	7.5	9.8	16.0
	Outflow	G94B	12	24.5	34.7	22.4	18.0	20.0	24.5	38.8	89.0
	Outflow	S10A	5	15.0	18.4	8.0	13.0	13.0	15.0	25.5	32.0
	Outflow	S10C	8	14.0	17.4	7.1	13.0	13.3	14.0	21.0	33.0
	Outflow	S10D	14	19.9	23.5	9.6	14.0	16.5	20.0	28.3	46.0
	Outflow	S39	13	21.0	23.3	9.8	13.0	14.0	21.0	33.5	41.0
	Rim	X0	10	27.7	36.6	22.6	19.0	19.8	28.0	51.8	83.0
	Rim	Z0	10	24.2	33.9	20.2	18.0	18.0	24.5	51.1	72.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
Water Conservation Area 2	Inflow	E0	9	40.3	41.2	9.2	29.0	32.5	43.0	47.5	56.0
	Inflow	F0	9	40.5	42.4	13.7	22.0	32.0	42.0	51.0	68.0
	Inflow	G335	52	16.2	17.3	6.8	9.0	12.0	17.0	20.5	49.5
	Inflow	S10A	5	17.3	18.4	8.0	13.0	13.0	15.0	25.5	32.0
	Inflow	S10C	8	16.4	17.4	7.1	13.0	13.3	14.0	21.0	33.0
	Inflow	S10D	14	22.0	23.5	9.6	14.0	16.5	20.0	28.3	46.0
	Inflow	S7	53	18.8	19.8	6.9	11.0	14.3	18.0	24.5	45.0
	Interior	404C2	4	8.8	9.0	2.2	7.0	7.3	8.5	11.3	12.0
	Interior	404Z1	8	27.0	38.3	30.0	4.0	15.3	32.0	57.8	96.0
	Interior	CA215	22	5.3	5.5	1.3	4.0	4.8	5.0	6.0	9.0
	Interior	CA217	10	6.3	7.0	4.4	4.0	4.8	6.0	7.3	19.0
	Interior	CA222	10	5.8	6.1	2.1	4.0	4.0	6.0	7.0	11.0
	Interior	CA223	6	25.9	27.8	13.5	18.0	21.0	23.5	32.5	55.0
	Interior	CA224	9	8.4	8.9	3.7	5.0	7.0	8.0	9.5	18.0
	Interior	CA26	9	5.3	6.4	4.2	1.0	4.5	5.0	8.0	16.0
	Interior	CA27	20	8.3	8.6	2.2	5.0	7.0	8.5	9.0	15.0
	Interior	CA28	19	23.7	26.4	14.5	14.0	17.0	23.0	27.0	65.0
	Interior	CA29	22	6.4	6.6	2.0	5.0	5.0	6.0	8.0	12.0
	Interior	E1	7	39.2	62.6	83.6	17.0	18.0	32.0	52.0	250.0
	Interior	E2	2	18.2	18.3	0.4	18.0		18.3		18.5
	Interior	E3	7	22.7	23.4	5.7	17.0	17.0	24.5	28.0	31.0
	Interior	E4	9	15.3	16.7	8.5	10.0	11.0	14.0	19.8	37.0
	Interior	E5	17	6.7	7.0	2.4	4.0	5.5	7.0	8.0	15.0
	Interior	F1	27	36.5	39.6	16.4	16.0	27.0	36.0	48.0	76.0
	Interior	F2	20	26.9	31.1	23.2	18.0	19.3	21.0	36.8	120.0
	Interior	F3	13	18.1	21.6	13.9	4.0	13.5	16.0	26.0	50.0
	Interior	F4	31	14.0	14.6	4.5	8.0	11.0	14.0	17.0	25.0
	Interior	F5	18	8.6	9.3	5.3	6.0	7.0	8.0	9.0	30.0
	Interior	N1	5	24.2	26.4	11.6	12.0	15.5	25.0	38.0	39.0
	Interior	S145	18	11.5	13.7	9.0	6.0	7.8	8.5	19.3	35.0
	Interior	U1	20	9.1	11.4	10.0	4.0	6.0	8.0	10.0	43.0
	Interior	U2	8	7.7	7.8	1.3	6.5	7.0	7.0	9.0	10.0
	Interior	U3	19	7.4	8.2	5.2	5.0	6.0	7.0	8.0	27.0
	Outflow	S11A	14	15.3	17.9	10.0	6.0	8.8	18.0	24.5	38.0
	Outflow	S11B	12	16.7	18.8	9.0	8.0	9.5	20.5	28.5	31.0
	Outflow	S11C	19	14.8	17.3	10.9	8.0	10.0	11.0	24.0	40.0
	Outflow	S34	15	17.3	18.0	6.0	12.0	14.0	16.0	21.0	36.0
	Outflow	S38	13	15.3	18.2	12.5	8.0	10.0	14.0	22.5	47.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
Water Conservation Area 3	Inflow	3AW0	10	32.5	37.2	22.5	17.0	22.5	25.5	53.6	89.0
	Inflow	C123SR84	13	22.1	24.3	11.6	12.0	14.0	23.0	31.5	53.0
	Inflow	G123	52	14.6	15.7	8.9	10.0	12.0	14.0	16.8	74.0
	Inflow	S11A	14	15.3	17.9	10.0	6.0	8.8	18.0	24.5	38.0
	Inflow	S11B	12	16.7	18.8	9.0	8.0	9.5	20.5	28.5	31.0
	Inflow	S11C	19	14.8	17.3	10.9	8.0	10.0	11.0	24.0	40.0
	Inflow	S140	53	32.6	33.9	9.8	19.0	25.8	32.0	39.0	66.0
	Inflow	S142	12	20.9	21.8	6.9	15.0	17.0	18.5	27.8	36.0
	Inflow	S150	39	18.4	18.7	3.5	13.0	16.0	19.0	21.0	28.5
	Inflow	S151	14	15.9	17.6	9.2	10.0	11.0	13.0	21.0	39.0
	Inflow	S190	53	33.4	37.7	26.7	19.0	24.0	30.5	44.3	203.0
	Inflow	S8	53	19.9	21.2	8.0	11.0	15.0	19.0	25.0	51.0
	Inflow	S9	53	12.8	13.7	5.9	7.0	10.0	11.0	17.0	42.0
	Interior	3ANMESO	10	9.1	10.8	7.4	4.0	5.8	9.0	13.3	29.0
	Interior	3ASMESO	20	7.1	8.0	4.5	4.0	5.3	6.5	8.8	20.0
	Interior	CA311	22	6.9	8.0	7.0	4.0	5.0	6.0	8.3	38.0
	Interior	CA314	11	7.3	8.9	7.3	4.0	5.0	7.0	8.0	28.0
	Interior	CA315	23	7.9	9.7	7.8	4.0	5.0	6.0	11.0	36.0
	Interior	CA316	20	10.8	12.9	10.0	6.0	8.0	9.0	14.3	42.0
	Interior	CA317	25	8.4	10.6	12.7	6.0	6.5	7.0	8.0	69.0
	Interior	CA318	23	10.7	13.7	12.4	4.0	7.0	9.0	11.0	54.0
	Interior	CA319	10	6.8	7.6	3.9	3.0	4.8	7.5	9.0	17.0
	Interior	CA32	8	7.5	7.6	1.5	5.0	7.0	7.5	8.8	10.0
	Interior	CA324	1	14.0	14.0		14.0		14.0		14.0
	Interior	CA325	6	5.6	5.7	1.0	5.0	5.0	5.0	7.0	7.0
	Interior	CA33	7	14.4	14.9	4.3	10.0	11.0	15.0	16.0	23.0
	Interior	CA34	10	14.3	15.2	5.8	9.0	9.8	15.0	18.3	27.0
	Interior	CA35	6	8.0	8.5	3.4	5.0	6.5	8.0	9.8	15.0
	Interior	CA36	6	35.7	38.0	15.8	26.0	26.8	31.0	51.8	66.0
	Interior	CA38	14	6.6	7.4	4.6	4.0	5.0	6.0	7.5	20.0
	Interior	CA39	10	6.8	7.2	2.6	4.0	6.0	6.0	8.5	13.0
	Interior	CA3B1	10	6.0	6.4	2.7	3.0	5.0	6.0	7.3	13.0
	Interior	CA3B2	8	7.6	8.5	4.7	4.0	5.0	7.0	11.5	18.0
	Interior	S345B6	9	6.6	7.4	3.9	3.0	4.5	6.0	11.5	14.0

Table 1. Continued.

Area	Class	Station	Count	Geometric Mean	Arithmetic Average	Standard Deviation	Min	25th Percentile	Median	75th Percentile	Max
Water Conservation Area 3	Outflow	S12A	38	18.6	49.6	197.6	11.3	13.6	15.3	18.0	1235.1
	Outflow	S12B	16	14.5	15.8	7.1	9.0	10.5	13.0	21.3	32.0
	Outflow	S12C	28	14.7	15.6	5.1	7.0	11.1	14.9	19.8	24.6
	Outflow	S12D	25	12.0	12.3	2.9	9.0	10.0	12.0	13.5	20.0
	Outflow	S197	3	4.6	4.7	1.2	4.0	4.0	4.0	6.0	6.0
	Outflow	S31	13	11.2	11.4	1.9	9.0	10.0	10.0	13.0	15.0
	Outflow	S333	53	12.9	13.3	3.6	7.6	10.9	12.4	15.9	20.2
	Outflow	S334	9	14.2	14.3	1.7	12.0	12.5	15.0	16.0	16.0
	Outflow	S344	4	31.7	36.0	20.4	17.0	18.3	33.0	56.8	61.0
	Outflow	S355A	7	21.3	23.6	11.2	13.0	13.0	20.0	35.0	39.0
	Outflow	S355B	7	29.1	34.1	17.8	10.0	15.0	41.0	50.0	53.0
	Outflow	US41-25	17	25.2	29.2	17.0	12.0	16.5	20.0	41.0	67.0