

# Appendix 3C-3: Annual Phosphorus Criteria Compliance Assessment for Water Year 2007

Florida Department of Environmental Protection

**Table 1.** Annual phosphorus criteria compliance assessment for the five-year period from Water Year 2003 through Water Year 2007.

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail
Arthur R. Marshall Loxahatchee National Wildlife Refuge	Impacted	2003	X1	10	27.8	Fail	28.4	Fail		
	Impacted	2003	Z1	9	29.0	Fail				
	Impacted	2004	X1	12	24.2	Fail	25.4	Fail		
	Impacted	2004	Z1	12	26.7	Fail				
	Impacted	2005	LOXA101	7	19.0	Fail	29.3	Fail		
	Impacted	2005	LOXA105	6	38.0	Fail				
	Impacted	2005	LOXA124	8	29.9	Fail				
	Impacted	2005	LOXA130	8	26.8	Fail				
	Impacted	2005	LOXA137	8	22.6	Fail				
	Impacted	2005	LOXA140	7	18.1	Fail				
	Impacted	2005	X1	9	46.2	Fail				
	Impacted	2005	Z1	11	34.1	Fail				
	Impacted	2006	LOXA101	8	14.5	Pass	16.5	Fail		
	Impacted	2006	LOXA105	8	15.5	Pass				
	Impacted	2006	LOXA124	11	10.6	Pass				
	Impacted	2006	LOXA130	11	14.8	Pass				
	Impacted	2006	LOXA137	12	13.6	Pass				
	Impacted	2006	LOXA140	9	11.8	Pass				
	Impacted	2006	X1	10	31.2	Fail				
	Impacted	2006	Z1	12	19.6	Fail				
	Impacted	2007	LOXA101	3	N/A (7.6)	N/A	31.5	Fail	24.4	Fail
	Impacted	2007	LOXA105	2	N/A (14.7)	N/A				
	Impacted	2007	LOXA124	4	N/A (9.8)	N/A				
	Impacted	2007	LOXA130	4	N/A (8.7)	N/A				
	Impacted	2007	LOXA137	4	N/A (7.6)	N/A				
	Impacted	2007	LOXA140	2	N/A (7)	N/A				
	Impacted	2007	X1	7	31.8	Fail				
	Impacted	2007	Z1	8	31.2	Fail				

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail
Arthur R. Marshall Loxahatchee National Wildlife Refuge	Unimpacted	2003	LOX10	7	6.9	Pass	8.3	Pass		
	Unimpacted	2003	LOX11	11	8.8	Pass				
	Unimpacted	2003	LOX12	12	7.6	Pass				
	Unimpacted	2003	LOX13	8	9.3	Pass				
	Unimpacted	2003	LOX14	12	7.8	Pass				
	Unimpacted	2003	LOX15	12	6.5	Pass				
	Unimpacted	2003	LOX16	11	8.5	Pass				
	Unimpacted	2003	LOX3	5	N/A (11.9)	N/A				
	Unimpacted	2003	LOX4	9	10.2	Pass				
	Unimpacted	2003	LOX5	5	N/A (8.4)	N/A				
	Unimpacted	2003	LOX6	11	6.9	Pass				
	Unimpacted	2003	LOX7	11	8.1	Pass				
	Unimpacted	2003	LOX8	11	7.6	Pass				
	Unimpacted	2003	LOX9	8	6.9	Pass				
	Unimpacted	2003	X4	10	12.0	Pass				
	Unimpacted	2004	LOX10	8	9.1	Pass	8.7	Pass		
	Unimpacted	2004	LOX11	11	7.5	Pass				
	Unimpacted	2004	LOX12	12	6.4	Pass				
	Unimpacted	2004	LOX13	11	9.7	Pass				
	Unimpacted	2004	LOX14	12	7.6	Pass				
	Unimpacted	2004	LOX15	12	5.6	Pass				
	Unimpacted	2004	LOX16	12	8.4	Pass				
	Unimpacted	2004	LOX3	7	12.1	Pass				
	Unimpacted	2004	LOX4	9	10.9	Pass				
	Unimpacted	2004	LOX5	8	12.1	Pass				
	Unimpacted	2004	LOX6	12	6.9	Pass				
	Unimpacted	2004	LOX7	11	9.6	Pass				
	Unimpacted	2004	LOX8	12	7.9	Pass				
	Unimpacted	2004	LOX9	7	7.2	Pass				
	Unimpacted	2004	X4	12	9.7	Pass				
	Unimpacted	2005	LOX10	9	11.4	Pass	11.0	Pass		
	Unimpacted	2005	LOX11	10	10.9	Pass				
	Unimpacted	2005	LOX12	12	12.9	Pass				
	Unimpacted	2005	LOX13	10	9.6	Pass				
	Unimpacted	2005	LOX14	10	8.3	Pass				
	Unimpacted	2005	LOX15	11	8.7	Pass				
	Unimpacted	2005	LOX16	10	8.9	Pass				
	Unimpacted	2005	LOX3	4	N/A (17.2)	N/A				
	Unimpacted	2005	LOX4	9	14.0	Pass				
	Unimpacted	2005	LOX5	3	N/A (11.9)	N/A				
	Unimpacted	2005	LOX6	9	7.2	Pass				
	Unimpacted	2005	LOX7	10	11.2	Pass				
	Unimpacted	2005	LOX8	10	10.4	Pass				
	Unimpacted	2005	LOX9	6	9.9	Pass				
Unimpacted	2005	LOXA108	5	N/A (10)	N/A					
Unimpacted	2005	X4	11	19.8	Fail					

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail
Arthur R. Marshall Loxahatchee National Wildlife Refuge	Unimpacted	2006	LOX10	9	7.3	Pass	7.5	Pass		
	Unimpacted	2006	LOX11	10	7.1	Pass				
	Unimpacted	2006	LOX12	10	7.2	Pass				
	Unimpacted	2006	LOX13	8	7.5	Pass				
	Unimpacted	2006	LOX14	10	6.7	Pass				
	Unimpacted	2006	LOX15	10	7.5	Pass				
	Unimpacted	2006	LOX16	10	6.7	Pass				
	Unimpacted	2006	LOX3	4	N/A (7.3)	N/A				
	Unimpacted	2006	LOX4	10	8.0	Pass				
	Unimpacted	2006	LOX5	7	7.8	Pass				
	Unimpacted	2006	LOX6	10	6.0	Pass				
	Unimpacted	2006	LOX7	10	7.8	Pass				
	Unimpacted	2006	LOX8	10	8.1	Pass				
	Unimpacted	2006	LOX9	10	6.4	Pass				
	Unimpacted	2006	LOXA108	6	9.8	Pass				
	Unimpacted	2006	X4	12	9.1	Pass				
	Unimpacted	2007	LOX10	8	7.4	Pass	8.0	Pass	8.7	Pass
	Unimpacted	2007	LOX11	10	6.6	Pass				
	Unimpacted	2007	LOX12	12	7.1	Pass				
	Unimpacted	2007	LOX13	10	7.3	Pass				
	Unimpacted	2007	LOX14	11	7.1	Pass				
	Unimpacted	2007	LOX15	11	7.3	Pass				
	Unimpacted	2007	LOX16	11	6.7	Pass				
	Unimpacted	2007	LOX3	4	N/A (10.4)	N/A				
	Unimpacted	2007	LOX4	8	9.7	Pass				
	Unimpacted	2007	LOX5	5	N/A (8.8)	N/A				
	Unimpacted	2007	LOX6	10	6.8	Pass				
	Unimpacted	2007	LOX7	10	8.8	Pass				
	Unimpacted	2007	LOX8	11	9.4	Pass				
	Unimpacted	2007	LOX9	7	7.8	Pass				
Unimpacted	2007	LOXA108	1	N/A (8)	N/A					
Unimpacted	2007	X4	11	11.4	Pass					

Area	Network	Water Year	Station	Sample Size (n)	Annual Site Geometric Mean	≤15 µg/L Pass/Fail	Network Annual Avg Geometric Mean	≤11 µg/L Pass/Fail	Network 5-year Avg Geometric Mean	≤10 µg/L Pass/Fail
Water Conservation Area 2	Impacted	2003	404Z1	10	30.3	Fail	27.7	Fail		
	Impacted	2003	F1	19	51.8	Fail				
	Impacted	2003	F3	10	21.2	Fail				
	Impacted	2003	F4	23	14.0	Pass				
	Impacted	2003	N1	10	21.5	Fail				
	Impacted	2004	404Z1	10	18.8	Fail	20.1	Fail		
	Impacted	2004	F1	15	36.0	Fail				
	Impacted	2004	F3	11	15.5	Pass				
	Impacted	2004	F4	16	10.8	Pass				
	Impacted	2004	N1	10	19.6	Fail				
	Impacted	2005	404Z1	7	25.8	Fail	33.0	Fail		
	Impacted	2005	F1	8	66.0	Fail				
	Impacted	2005	F3	11	31.5	Fail				
	Impacted	2005	F4	8	22.8	Fail				
	Impacted	2005	N1	9	19.1	Fail				
	Impacted	2006	F1	14	44.5	Fail	23.8	Fail		
	Impacted	2006	F3	10	16.8	Fail				
	Impacted	2006	F4	16	15.3	Pass				
	Impacted	2006	N1	12	18.7	Fail				
	Impacted	2007	404Z1	1	N/A (33)	N/A	27.4	Fail	26.5	Fail
	Impacted	2007	CA224	1	N/A (7)	N/A				
	Impacted	2007	F1	9	46.7	Fail				
	Impacted	2007	F3	9	16.4	Fail				
	Impacted	2007	F4	10	21.6	Fail				
Impacted	2007	N1	6	24.9	Fail					
Water Conservation Area 2	Unimpacted	2003	404C2	8	13.0	Pass	8.5	Pass		
	Unimpacted	2003	CA29	12	6.1	Pass				
	Unimpacted	2003	E5	9	6.4	Pass				
	Unimpacted	2003	F5	10	11.6	Pass				
	Unimpacted	2003	U1	9	6.0	Pass				
	Unimpacted	2003	U3	10	7.8	Pass				
	Unimpacted	2004	404C2	10	11.5	Pass	6.5	Pass		
	Unimpacted	2004	CA29	13	6.2	Pass				
	Unimpacted	2004	E5	9	5.7	Pass				
	Unimpacted	2004	F5	8	6.5	Pass				
	Unimpacted	2004	U1	7	3.9	Pass				
	Unimpacted	2004	U3	9	5.5	Pass				
	Unimpacted	2005	404C2	8	8.7	Pass	9.1	Pass		
	Unimpacted	2005	CA29	10	7.0	Pass				
	Unimpacted	2005	E5	7	5.8	Pass				
	Unimpacted	2005	F5	7	11.6	Pass				
	Unimpacted	2005	U1	8	10.2	Pass				
	Unimpacted	2005	U3	7	11.3	Pass				
	Unimpacted	2006	CA29	16	6.5	Pass	7.0	Pass		
	Unimpacted	2006	E5	9	7.4	Pass				
	Unimpacted	2006	F5	9	8.5	Pass				
	Unimpacted	2006	U1	9	6.7	Pass				
	Unimpacted	2006	U3	8	5.7	Pass				
	Unimpacted	2007	CA217	3	N/A (7)	N/A	6.3	Pass	7.5	Pass
	Unimpacted	2007	CA222	3	N/A (6.5)	N/A				
	Unimpacted	2007	CA26	1	N/A (6)	N/A				
	Unimpacted	2007	CA29	10	8.9	Pass				
	Unimpacted	2007	E5	9	4.3	Pass				
Unimpacted	2007	F5	9	6.7	Pass					
Unimpacted	2007	U1	10	6.4	Pass					
Unimpacted	2007	U3	8	5.4	Pass					

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Water Conservation Area 3	Impacted	2003	CA33	11	10.8	Pass	18.5	Fail		
	Impacted	2003	CA35	9	10.4	Pass				
	Impacted	2003	CA36	7	34.2	Fail				
	Impacted	2004	CA33	12	11.1	Pass	17.7	Fail		
	Impacted	2004	CA35	10	9.7	Pass				
	Impacted	2004	CA36	10	32.5	Fail				
	Impacted	2005	CA33	7	17.7	Fail	17.7	Fail		
	Impacted	2005	CA35	4	N/A (12.3)	N/A				
	Impacted	2005	CA36	4	N/A (56.3)	N/A				
	Impacted	2006	CA33	14	10.3	Pass	16.5	Fail		
	Impacted	2006	CA35	12	8.3	Pass				
	Impacted	2006	CA36	10	30.9	Fail				
	Impacted	2007	CA314	4	N/A (5.9)	N/A	NA	NA	17.6	Fail
	Impacted	2007	CA33	5	N/A (18.2)	N/A				
	Impacted	2007	CA35	4	N/A (10.1)	N/A				
Impacted	2007	CA36	5	N/A (28.3)	N/A					
Water Conservation Area 3	Unimpacted	2003	3ASMESO	10	4.5	Pass	6.1	Pass		
	Unimpacted	2003	CA311	14	4.7	Pass				
	Unimpacted	2003	CA315	13	4.8	Pass				
	Unimpacted	2003	CA316	13	7.7	Pass				
	Unimpacted	2003	CA32	11	7.2	Pass				
	Unimpacted	2003	CA34	12	8.6	Pass				
	Unimpacted	2003	CA38	13	4.9	Pass				
	Unimpacted	2003	S345B6	5	N/A (5.5)	N/A				
	Unimpacted	2004	3ASMESO	12	2.9	Pass	5.1	Pass		
	Unimpacted	2004	CA311	14	4.2	Pass				
	Unimpacted	2004	CA315	16	4.6	Pass				
	Unimpacted	2004	CA316	15	6.6	Pass				
	Unimpacted	2004	CA32	9	6.0	Pass				
	Unimpacted	2004	CA34	10	6.7	Pass				
	Unimpacted	2004	CA38	12	5.1	Pass				
	Unimpacted	2004	S345B6	6	4.9	Pass				
	Unimpacted	2005	3ASMESO	9	3.6	Pass	7.6	Pass		
	Unimpacted	2005	CA311	10	7.5	Pass				
	Unimpacted	2005	CA315	9	8.6	Pass				
	Unimpacted	2005	CA316	10	11.2	Pass				
Unimpacted	2005	CA32	5	N/A (8.1)	N/A					
Unimpacted	2005	CA34	5	N/A (8.1)	N/A					
Unimpacted	2005	CA38	6	6.0	Pass					
Unimpacted	2005	S345B6	8	8.8	Pass					

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Water Conservation Area 3	Unimpacted	2006	3ASMESO	10	3.4	Pass	6.7	Pass		
	Unimpacted	2006	CA311	15	5.5	Pass				
	Unimpacted	2006	CA315	16	7.5	Pass				
	Unimpacted	2006	CA316	16	7.5	Pass				
	Unimpacted	2006	CA32	13	6.2	Pass				
	Unimpacted	2006	CA34	14	11.2	Pass				
	Unimpacted	2006	CA38	14	5.9	Pass				
	Unimpacted	2007	3ASMESO	9	7.1	Pass	7.8	Pass	6.6	Pass
	Unimpacted	2007	CA311	11	7.4	Pass				
	Unimpacted	2007	CA315	16	7.7	Pass				
	Unimpacted	2007	CA316	11	9.3	Pass				
	Unimpacted	2007	CA319	4	N/A (8.2)	N/A				
	Unimpacted	2007	CA32	6	9.4	Pass				
	Unimpacted	2007	CA325	1	N/A (8)	N/A				
	Unimpacted	2007	CA34	5	N/A (12.6)	N/A				
	Unimpacted	2007	CA38	6	6.1	Pass				
	Unimpacted	2007	CA39	4	N/A (5.7)	N/A				
	Unimpacted	2007	S345B6	4	N/A (9)	N/A				

N/A Annual site geometric mean calculated from less than the six required samples. Value provided for informational purposes only and not included in assessment calculations.