

**REFUGE'S ENHANCED WATER QUALITY PROGRAM  
MONTHLY SAMPLING**

*October through December, 2012 Data Update*  
Submitted May 14, 2013

*by:*

**Donatto Surratt**

**Everglades National Park  
c/o A.R.M. Loxahatchee National Wildlife Refuge**

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Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R) Units	Depth <sup>1</sup> meter	Total Depth <sup>2</sup> meter	DCS <sup>3</sup> meter	Alkalinity mg/l	Calcium Dissolved mg/l	Carbon, Dissolved Organic mg/l	Carbon, Total Organic mg/l	Chloride mg/l	Conductivity (Field) µMHSO/cm	Nitrate + Nitrite as Nitrogen mg/l	Nitrogen, Total Kjeldahl mg/l	Ortho-phosphate as Phosphorus mg/l	Oxygen, Dissolved (Field) mg/l	pH (Field) pH units	Phosphorus, Total mg/l	Silica mg/l	Solids, Total Dissolved mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU
A101	10/09/12	F	0.20	0.40	0.50	137	44	38	36	63	505	U	1.2	0.002	1.0	7.0	0.026	11.3	301	U	16.8	26.7	0.8
A102	10/09/12	F	0.15	0.30	0.47	64	17	29	29	30	227	U	1.1	U	2.6	6.9	0.012	14.3	158	U	2.72	28.0	0.6
A103	10/09/12	F	0.15	0.30	0.43	40	10	26	26	13	121	U	1.1	U	2.3	6.7	0.013	7.2	102	U	1.37	27.3	0.6
A104	10/09/12	F	>1M	>1M	>1M	152	48	39	38	82	694	U	1.4	0.009	1.9	7.4	0.040	13.4	362	U	29.3	28.9	1.1
A105	10/09/12	F	0.18	0.36	0.58	88	26	31	31	29	289	U	1.3	0.003	2.6	6.9	0.041	12.9	191	U	8.56	27.8	1.5
A106	10/09/12	F	0.22	0.43	0.50	82	23	28	27	27	256	U	1.1	U	1.8	6.9	0.013	13.4	173	U	6.63	28.8	0.5
A107	10/09/12	F	0.12	0.33	0.42	50	13	27	28	20	170	U	1.2	U	2.1	6.8	0.010	10.8	127	U	1.4	28.7	0.6
A108	10/09/12	F	0.19	0.29	0.29	16	4	29	28	10	69	U	1.4	U	2.9	6.4	0.008	4.7	96	U	0.49	30.0	0.6
A109	10/10/12	F	0.26	0.53	0.66	46	14	27	27	37	224	U	1.0	0.003	1.3	6.5	0.011	15.2	160	U	3.59	26.9	0.5
A110	10/10/12	F	0.22	0.45	0.55	22	6	26	25	10	74	U	1.3	U	4.1	6.8	0.008	4.3	85	U	0.5	27.7	0.9
A111	10/10/12	F	0.22	0.44	0.46	17	5	21	21	9	68	U	1.0	U	2.1	6.1	0.009	3.3	77	U	0.45	28.0	0.9
A112	10/10/12	F	0.27	0.55	0.71	26	7	23	23	10	59	0.003	1.0	U	0.6	6.2	0.011	5.4	80	U	0.53	26.9	0.7
A113	10/10/12	F	0.26	0.52	0.65	15	5	20	20	10	67	U	1.0	U	2.3	6.1	0.007	3.1	73	U	U	28.3	0.6
A114	10/10/12	F	0.25	0.50	0.65	13	4	22	22	10	62	U	1.0	U	2.9	6.0	0.007	2.2	76	U	U	28.3	0.5
A115	10/09/12	F	>1M	>1M	>1M	183	53	51	50	121	827	0.037	1.7	0.014	3.2	7.2	0.037	21.9	506	U	44.9	28.9	0.9
A117	10/11/12	F	0.26	0.54	0.67	53	15	26	27	27	203	U	1.0	0.005	0.7	6.4	0.030	7.7	147	U	3.35	26.5	0.9
A118	10/11/12	F	0.27	0.57	0.67	30	8	21	21	11	97	U	0.9	0.002	1.5	6.2	0.010	8.3	84	U	0.71	26.9	0.6
A119	10/11/12	F	0.31	0.62	0.74	23	6	23	23	12	81	U	1.1	U	4.6	6.4	0.009	4.1	79	U	0.47	27.5	0.7
A120	10/11/12	F	0.30	0.60	0.69	13	4	23	23	13	70	U	1.2	U	4.5	6.2	0.007	4.4	80	U	U	27.5	0.7
A122	10/11/12	F	0.26	0.54	0.66	60	17	29	29	33	230	U	1.1	0.003	1.0	6.3	0.022	8.8	159	U	4.35	26.1	1.0
A124	10/10/12	F	0.23	0.47	0.65	29	6	18	17	9	80	U	0.8	0.002	1.4	6.3	0.023	2.3	68	U	0.48	26.8	0.8
A126	10/10/12	F	0.27	0.55	0.70	45	14	23	23	26	182	U	0.8	0.002	1.2	6.3	0.012	10.1	136	U	1.42	27.4	0.6
A127	10/10/12	F	0.25	0.50	0.58	15	5	23	23	8	64	U	1.2	U	1.6	6.1	0.009	4.3	74	U	0.46	28.3	0.9
A128	10/10/12	F	0.18	0.37	0.56	11	4	24	23	10	59	U	1.2	U	3.5	6.1	0.008	2.9	80	U	0.47	28.4	0.8
A129	10/09/12	F	>1M	>1M	>1M	138	48	36	35	84	600	0.008	1.1	0.007	1.4	7.2	0.031	9.6	350	U	24.9	28.8	0.8
A130	10/08/12	F	0.25	0.50	0.62	82	25	24	24	22	225	U	0.7	U	2.2	6.7	0.018	10.2	143	U	1.71	27.2	0.9
A131	10/08/12	F	0.29	0.58	0.63	59	17	23	22	23	186	U	0.8	U	5.7	6.9	0.013	16.0	137	U	1.15	29.2	0.6
A132	10/09/12	F	>1M	>1M	>1M	141	48	37	37	90	617	0.005	1.2	0.007	1.0	7.2	0.030	9.8	357	U	26.3	28.2	1.0
A133	10/08/12	F	0.21	0.42	0.56	79	26	22	22	22	227	U	0.8	U	3.2	6.8	0.028	10.3	139	U	2.46	28.3	1.0
A134	10/08/12	F	0.24	0.49	0.68	87	29	24	24	22	246	U	0.7	0.003	4.3	6.9	0.022	11.2	148	U	3	28.4	0.8
A135	10/09/12	F	>1M	>1M	>1M	141	49	37	38	98	655	0.007	1.3	0.007	2.8	7.4	0.030	10.4	383	U	29.5	28.2	0.9
A136	10/08/12	F	0.26	0.53	0.66	94	30	26	24	24	258	U	0.8	0.002	5.0	6.8	0.026	10.2	162	U	2.53	26.9	0.9
A137	10/08/12	F	0.29	0.58	0.67	83	26	26	24	22	228	U	0.7	U	6.5	7.0	0.017	13.8	147	U	1.75	28.4	0.7
A138	10/08/12	F	0.22	0.45	0.54	64	20	25	24	23	195	U	1.0	U	4.0	7.0	0.012	15.4	132	U	1.75	28.7	0.6
A139	10/08/12	F	0.40	0.20	0.48	30	9	26	24	23	132	U	1.0	U	3.8	6.5	0.015	12.5	113	U	0.7	28.1	0.7
A140	10/09/12	F	0.18	0.36	0.54	69	20	23	22	22	209	U	0.8	0.002	2.3	6.9	0.012	15.9	141	8.5	1.56	27.0	0.5
A141	10/11/12	F	>1M	>1M	>1M	34	10	22	22	15	119	U	0.9	0.002	0.9	6.2	0.011	5.1	89	U	1.67	26.0	1.0
Total			37																				
Full			37																				
Partial			0																				
None			0																				

(1) Sample depth

(2) Total depth is depth of the clear water column

(3) Depth to consolidated substrate

U indicates that the compound was analyzed for but not detected; see "LOXA\_Parameter\_Info" tab for table of MDLs.

Additional information on the Enhanced Water Quality Monitoring Network can be found at:

[http://sofia.usgs.gov/lox\\_monitor\\_model/wq\\_network.html](http://sofia.usgs.gov/lox_monitor_model/wq_network.html)

Data from June 2004 to May 2006 available on DBHYDRO:

<http://www.sfwmd.gov/org/ema/dbhydro/>

Field notes are maintained by the Everglades Program Team at the A.R.M. Loxahatchee National Wildlife Refuge.

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R) Units	Depth <sup>1</sup> meter	Total Depth <sup>2</sup> meter	DCS <sup>3</sup> meter	Alkalinity mg/l	Calcium Dissolved mg/l	Carbon, Dissolved Organic mg/l	Carbon, Total Organic mg/l	Chloride mg/l	Conductivity (Field) µMHSO/cm	Nitrate + Nitrite as Nitrogen mg/l	Nitrogen, Total Kjeldahl mg/l	Ortho-phosphate as Phosphorus mg/l	Oxygen, Dissolved (Field) mg/l	pH (Field) pH units	Phosphorus, Total mg/l	Silica mg/l	Solids, Total Dissolved mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU	
A101	11/13/12	F	0.19	0.37	0.50	154	50	43	41	72	542	U	1.4	0.004	1.6	7.0	0.032	10.4	318	U	6.54	19.8	6.6	
A102	11/13/12	F	0.18	0.35	0.39	64	18	31	32	27	210	U	1.1	U	5.3	6.9	0.011	9.2	153	U	1.23	21.4	0.5	
A103	11/13/12	F	0.17	0.34	0.40	44	12	27	27	15	149	U	1.0	0.002	3.5	6.8	0.008	4.0	102	6	1.00	21.5	0.6	
A104	11/13/12	F	>1M	>1M	>1M	153	49	42	46	117	760	0.035	1.6	0.006	6.5	7.5	0.024	13.8	428	6	42.90	21.2	1.3	
A105	11/13/12	F	0.23	0.46	0.51	99	30	30	32	33	303	U	1.0	0.003	2.0	6.8	0.014	9.9	191	U	4.15	20.7	0.6	
A106	11/13/12	F	0.18	0.36	0.41	77	23	28	29	33	262	U	1.1	0.003	4.1	6.9	0.010	12.1	173	U	2.42	21.9	0.5	
A107	11/13/12	F	0.12	0.24	0.33	44	11	27	27	20	154	U	1.1	U	4.3	6.7	0.007	6.4	115	6	0.85	22.1	0.6	
A108	11/13/12	F	0.15	0.29	0.36	14	5	31	31	15	90	U	1.4	U	5.6	6.8	0.005	4.2	92	5.5	U	23.6	0.9	
A109	11/14/12	F	0.25	0.51	0.61	48	14	29	30	34	214	U	1.1	U	2.4	6.4	0.007	9.9	140	U	1.50	20.6	0.4	
A110	11/14/12	F	0.20	0.41	0.49	23	6	27	28	14	91	U	1.3	0.003	6.7	6.8	0.007	2.5	88	U	0.47	21.7	0.7	
A111	11/14/12	F	0.18	0.36	0.47	24	7	21	21	13	89	U	0.9	U	3.6	6.2	0.007	1.5	72	U	U	21.7	0.8	
A112	11/14/12	F	0.26	0.52	0.60	32	8	23	23	13	101	U	1.0	U	2.5	6.3	0.008	4.2	86	U	0.60	21.0	0.7	
A113	11/14/12	F	0.22	0.44	0.48	17	5	20	21	13	820	U	1.0	U	6.4	6.3	0.006	1.4	66	U	U	22.3	0.6	
A114	11/14/12	F	0.23	0.47	0.51	15	5	22	23	13	77	U	1.0	0.003	5.0	6.1	0.006	2.0	72	U	U	21.8	0.5	
A115	11/13/12	F	>1M	>1M	>1M	155	50	44	45	107	741	0.017	1.5	0.012	5.4	7.4	0.027	17.2	430	U	44.40	21.7	0.6	
A117	11/15/12	F	0.28	0.49	0.68	71	18	30	32	27	231	U	1.1	0.005	1.0	6.5	0.019	9.5	160	U	1.31	20.5	0.6	
A118	11/15/12	F	0.19	0.38	0.62	35	10	22	23	16	132	U	0.8	U	2.4	6.3	0.008	7.4	93	U	0.82	20.9	0.5	
A119	11/15/12	F	0.23	0.46	0.58	27	8	25	26	14	106	U	1.1	0.002	4.9	6.5	0.008	4.8	95	U	0.47	22.1	0.7	
A120	11/15/12	F	0.25	0.50	0.67	14	5	21	22	14	87	U	1.0	U	6.0	6.2	0.007	5.5	79	U	U	21.7	0.5	
A122	11/15/12	F	0.18	0.37	0.57	70	20	31	33	30	241	U	0.9	0.002	1.1	6.5	0.012	9.0	161	U	2.11	20.3	0.6	
A124	11/14/12	F	0.22	0.44	0.60	30	9	22	22	17	113	0.002	0.8	U	2.6	6.0	0.017	2.7	88	U	0.47	21.1	0.9	
A126	11/15/12	F	0.18	0.37	0.64	40	12	21	24	22	60	U	0.9	0.003	4.2	6.7	0.006	7.5	112	U	0.82	21.0	0.6	
A127	11/15/12	F	0.17	0.35	0.57	14	5	21	23	10	69	U	1.0	0.002	3.3	6.3	0.008	4.1	69	U	U	21.5	1.1	
A128	11/14/12	F	0.21	0.42	0.47	13	4	25	24	13	74	U	1.2	U	6.2	6.2	0.006	2.6	78	U	U	22.7	0.8	
A129	11/13/12	F	>1M	>1M	>1M	121	39	29	31	55	431	U	0.9	0.004	1.9	7.0	0.024	6.1	234	5	6.83	21.4	0.8	
A130	11/12/12	F	0.21	0.43	0.52	81	25	27	25	31	256	U	0.7	U	3.7	6.9	0.008	9.5	166	U	1.02	23.0	0.4	
A131	11/12/12	F	0.17	0.35	0.53	54	16	25	23	25	97	U	0.9	0.004	9.0	7.0	0.006	14.8	143	U	0.74	23.0	0.4	
A132	11/13/12	F	>1M	>1M	>1M	127	42	32	32	66	490	0.005	1.0	0.003	3.0	7.1	0.026	6.2	266	5	10.30	21.1	0.8	
A133	11/12/12	F	0.13	0.27	0.50	80	25	29	26	28	244	U	0.9	0.002	2.9	6.6	0.015	10.9	166	U	1.20	22.2	1.0	
A134	11/12/12	F	0.16	0.32	0.56	79	25	26	26	26	239	U	0.8	0.003	5.8	6.8	0.008	12.6	156	U	1.43	22.3	0.4	
A135	11/13/12	F	>1M	>1M	>1M	139	49	33	34	96	621	0.038	1.1	0.005	5.6	7.4	0.030	6.4	333	5.5	21.70	22.0	0.8	
A136	11/12/12	F	0.18	0.35	0.60	86	27	28	29	28	264	U	1.0	0.003	3.4	6.8	0.015	11.4	171	U	1.23	23.0	0.8	
A137	11/12/12	F	0.14	0.28	0.51	74	24	24	25	26	226	0.007	0.8	0.003	8.8	7.1	0.010	15.9	158	U	1.15	24.4	0.5	
A138	11/12/12	F	0.18	0.36	0.47	53	17	25	25	25	188	U	0.9	0.004	9.1	7.1	0.007	15.3	146	U	0.89	23.4	0.5	
A139	11/12/12	F	0.15	0.30	0.45	24	9	27	28	28	142	U	1.1	0.003	7.5	7.2	0.007	12.7	124	U	0.49	25.2	0.6	
A140	11/13/12	F	0.21	0.42	0.49	54	17	25	25	25	97	U	1.0	0.004	2.8	6.9	0.010	14.9	140	U	0.93	21.0	0.6	
A141	11/15/12	F	>1M	>1M	>1M	46	13	22	24	19	158	U	0.9	U	1.8	6.4	0.011	7.0	99	U	0.94	21.0	0.5	
Total			37																					
Full			37																					
Partial			0																					
None			0																					

(1) Sample depth

(2) Total depth is depth of the clear water column

(3) Depth to consolidated substrate

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The analyte was detected in both the sample and the associated method blank

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Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R) Units	Depth <sup>1</sup> meter	Total Depth <sup>2</sup> meter	DCS <sup>3</sup> meter	Alkalinity mg/l	Calcium Dissolved mg/l	Carbon, Dissolved Organic mg/l	Carbon, Total Organic mg/l	Chloride mg/l	Conductivity (Field) µMHSO/cm	Nitrate + Nitrite as Nitrogen mg/l	Nitrogen, Total Kjeldahl mg/l	Ortho-phosphate as Phosphorus mg/l	Oxygen, Dissolved (Field) mg/l	pH (Field) pH units	Phosphorus, Total mg/l	Silica mg/l	Solids, Total Dissolved mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU	
A101	12/11/12	F	0.16	0.32	0.41	165	52	46	46	81	586	U	1.6	U	1.4	7.0	0.020	9.1	368	U	5.38	22.2	0.7	
A102	12/11/12	F	0.14	0.28	0.41	72	20	36	39	30	245	U	1.5	U	4.0	6.9	0.013	6.8	192	U	1.17	23.2	1.4	
A103	12/11/12	F	0.14	0.28	0.35	51	14	30	31	18	165	U	1.3	U	2.3	6.8	0.011	2.8	130	U	0.87	22.7	0.8	
A104	12/10/12	F	0.00	0.00	>1M	200	60	57	64	169	1021	0.063	3.3	0.007	4.6	7.6	0.049	10.4	654	U	53	23.4	1.8	
A105	12/11/12	F	0.19	0.39	0.47	98	30	33	34	37	318	U	1.3	0.002	1.1	6.7	0.018	8.2	206	U	2.92	22.6	0.6	
A106	12/11/12	F	0.15	0.31	0.38	81	25	32	34	38	291	U	1.3	U	2.6	6.8	0.013	7.1	201	U	1.91	23.4	0.9	
A107	12/11/12	F	0.12	0.23	0.27	53	14	30	33	23	183	U	1.3	U	3.6	6.7	0.013	3.5	144	U	0.68	24.0	0.9	
A108	12/11/12	F	0.13	0.26	0.31	22	7	36	37	20	116	U	1.7	U	2.3	6.4	0.005	1.3	127	U	0.5	23.7	0.9	
A109	12/12/12	F	0.17	0.35	0.53	46	13	27	30	29	196	U	1.3	0.004	2.2	6.4	0.010	7.5	155	U	1.3	23.1	0.7	
A110	12/12/12	F	0.14	0.28	0.43	26	8	31	33	15	108	U	1.6	0.002	3.5	6.5	0.009	1.1	114	U	0.51	23.7	1.0	
A111	12/12/12	F	0.15	0.30	0.50	27	8	22	24	15	103	U	1.1	U	1.5	6.2	0.006	1.2	92	U	0.5	23.6	0.7	
A112	12/12/12	F	0.13	0.27	0.52	30	8	24	26	15	115	U	1.1	U	1.2	6.3	0.008	3.1	103	U	0.64	23.2	0.7	
A113	12/12/12	F	0.16	0.33	0.45	25	7	24	26	16	109	U	1.1	U	2.7	6.2	0.003	1.4	95	U	U	23.7	0.6	
A114	12/12/12	F	0.15	0.30	0.46	22	6	25	28	15	95	U	1.2	U	1.7	6.1	0.004	2.2	96	U	U	23.7	0.8	
A115	12/10/12	F	>1M	>1M	>1M	131	43	38	41	87	609	U	1.4	0.005	5.7	7.6	0.019	9.4	384	U	34.3	22.6	0.7	
A117	12/13/12	F	0.19	0.39	0.52	64	17	30	30	26	216	0.003	1.2	0.006	2.1	6.5	0.016	9.0	168	U	1.79	22.4	1.5	
A118	12/13/12	F	0.23	0.47	0.56	41	11	24	24	20	148	U	1.0	0.003	2.3	6.3	0.008	9.4	111	U	0.93	22.9	2.0	
A119	12/13/12	F	0.20	0.40	0.51	33	9	27	27	17	120	U	1.3	0.002	3.3	6.4	0.005	4.8	110	U	0.53	24.5	2.3	
A120	12/13/12	F	0.20	0.41	0.56	17	6	24	25	17	99	U	1.2	0.002	5.9	6.4	0.005	5.5	97	U	0.5	24.0	0.8	
A122	12/13/12	F	0.21	0.43	0.52	74	22	34	35	35	266	U	1.3	0.003	1.0	6.5	0.018	10.2	196	U	2.09	22.7	1.5	
A124	12/12/12	F	0.12	0.25	0.55	29	9	20	22	21	126	U	1.0	U	1.0	6.0	0.017	2.8	99	U	0.56	22.9	0.7	
A126	12/13/12	F	0.25	0.50	0.61	43	13	23	24	23	165	U	1.1	0.003	2.3	6.5	0.006	4.6	118	U	0.73	23.5	0.7	
A127	12/13/12	F	0.21	0.43	0.51	22	6	27	28	12	83	U	1.3	0.002	2.8	6.3	0.004	4.2	98	U	U	23.7	2.1	
A128	12/12/12	F	0.15	0.30	0.42	17	6	27	30	15	90	U	1.5	U	2.1	6.1	0.004	2.3	96	U	U	23.9	0.8	
A129	12/10/12	F	>1M	>1M	>1M	111	36	29	34	47	390	U	1.1	0.005	4.7	7.3	0.033	5.1	234	U	4.42	23.3	2.9	
A130	12/10/12	F	0.18	0.36	0.48	76	24	27	28	32	255	U	0.9	0.002	1.5	6.6	0.011	8.9	180	U	0.94	22.3	1.1	
A131	12/10/12	F	0.18	0.37	0.45	57	17	30	32	29	210	0.002	1.3	0.003	3.1	6.7	0.006	11.1	168	U	0.52	22.9	1.7	
A132	12/10/12	F	>1M	>1M	>1M	134	43	32	35	83	588	U	1.2	0.004	4.7	7.4	0.028	4.5	321	U	13.4	22.8	1.4	
A133	12/10/12	F	0.17	0.35	0.45	82	26	29	30	31	276	U	1.1	0.004	0.9	6.5	0.017	9.2	183	U	1.01	22.0	1.8	
A134	12/10/12	F	0.20	0.41	0.53	80	26	26	28	29	250	U	0.9	0.003	3.4	6.8	0.009	12.4	183	U	1.14	22.8	0.6	
A135	12/10/12	F	>1M	>1M	>1M	150	52	36	40	123	751	0.025	1.4	0.004	4.9	7.5	0.025	4.3	432	U	22	23.0	1.0	
A136	12/10/12	F	0.20	0.40	0.70	87	27	32	34	33	278	U	1.6	0.027	2.8	6.6	0.064	11.7	216	5	0.58	23.4	4.4	
A137	12/10/12	F	0.17	0.34	0.46	73	24	28	29	29	245	U	1.1	0.003	5.2	6.9	0.013	13.6	182	U	0.84	24.9	0.8	
A138	12/10/12	F	0.17	0.34	0.43	55	19	30	33	30	209	U	1.4	0.004	7.1	7.0	0.007	13.9	174	U	0.68	25.4	1.0	
A139	12/10/12	F	0.11	0.23	0.32	25	11	35	36	33	168	U	1.5	0.004	5.7	6.7	0.007	12.3	159	U	U	25.3	1.3	
A140	12/11/12	F	0.15	0.31	0.39	57	19	29	31	29	209	U	1.2	0.003	3.7	6.7	0.012	12.6	169	U	0.83	22.9	0.7	
A141	12/13/12	F	>1M	>1M	>1M	54	15	26	28	22	180	U	1.3	U	0.4	6.3	0.014	7.2	130	U	0.78	22.7	3.1	
Total			37																					
Full			37																					
Partial			0																					
None			0																					

(1) Sample depth

(2) Total depth is depth of the clear water column

(3) Depth to consolidated substrate

U indicates that the compound was analyzed for but not detected; see "LOXA\_Parameter\_info" tab for table of MDLs.

Additional information on the Enhanced Water Quality Monitoring Network can be found at:

[http://sofia.usgs.gov/lox\\_monitor\\_model/wq\\_network.html](http://sofia.usgs.gov/lox_monitor_model/wq_network.html)

Data from June 2004 to May 2006 available on DBHYDRO:

<http://www.sfwmd.gov/org/ema/dbhydro/>

Field notes are maintained by the Everglades Program Team at the A.R.M. Loxahatchee National Wildlife Refuge.

**AR.M. Loxahatchee National Wildlife Refuge  
Enhanced Water Quality Monitoring Network**

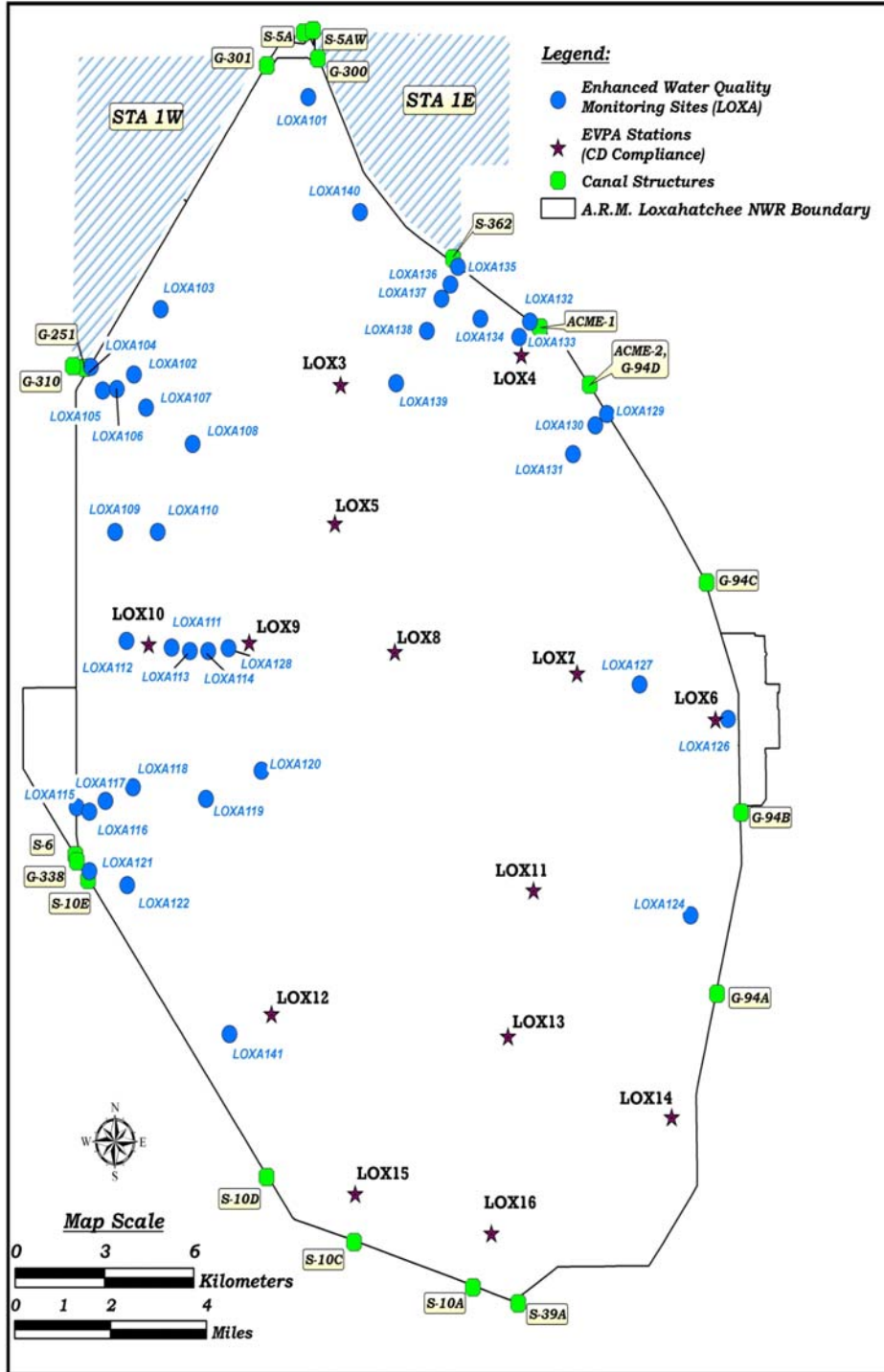
Parameter Information:

<b>Parameter</b>	<b>Units</b>	<b>Analysis Method</b>	<b>MDL</b>
Alkalinity as CaCO <sub>3</sub> , Total	mg/L	310.1	5
Calcium Dissolved	mg/L	200.7	0.02 - 0.03
Carbon, Dissolved Organic	mg/L	415.1	0.1 - 0.3
Carbon, Total Organic	mg/L	415.1	0.1 - 0.3
Chloride	mg/L	300.0	0.1
Conductivity (field)	μMHOS/cm	120.1 (field)	-
Nitrate + Nitrite as Nitrogen	mg/L	300.0	0.003 - 0.009
Nitrogen, Total Kjeldahl (TKN)	mg/L	351.2	0.06 - 0.07
Ortho-phosphate as Phosphorus	mg/L	365.1	0.002 - 0.003
Oxygen, Dissolved (Field)	mg/L	360.1	1
pH (Field)	pH units	150.1	-
Phosphorus, Total	mg/L	365.3	0.003
Silica	mg/L	370.1	0.14
Solids, Total Dissolved (TDS)	mg/L	160.1	10
Solids, Total Suspended (TSS)	mg/L	160.2	5
Sulfate	mg/L	300.0	0.1
Temperature (Field)	DEG C	170.1	-
Turbidity	NTU	180.1	0.1

Note: Nitrate and Nitrite not analyzed after June 2006

**A.R.M. Loxahatchee National Wildlife Refuge  
Enhanced Water Quality Monitoring Network**

Map of sites:



**Coordinates of sites:**

Name	Latitude	Longitude	X_DMS*	Y_DMS*	X_DM**	Y_DM**
LOXA101	26.66739249	-80.36636475	80° 21' 58.91" W	26° 40' 2.61" N	80° 21.9818333' W	26° 40.0435' N
LOXA102	26.59598877	-80.42553769	80° 25' 31.94" W	26° 35' 45.56" N	80° 25.532333' W	26° 35.7593333333333' N
LOXA103	26.61285142	-80.41643631	80° 24' 59.17" W	26° 36' 46.27" N	80° 24.98616667' W	26° 36.7711666666667' N
LOXA104	26.59798188	-80.44004508	80° 26' 24.16" W	26° 35' 52.73" N	80° 26.4026667' W	26° 35.8788333333333' N
LOXA105	26.59189923	-80.43609407	80° 26' 9.94" W	26° 35' 30.84" N	80° 26.1656667' W	26° 35.514' N
LOXA106	26.59220622	-80.43128096	80° 25' 52.61" W	26° 35' 31.94" N	80° 25.876833' W	26° 35.5323333333333' N
LOXA107	26.58739046	-80.42144468	80° 25' 17.20" W	26° 35' 14.61" N	80° 25.286667' W	26° 35.2435' N
LOXA108	26.5779601	-80.40585344	80° 24' 21.07" W	26° 34' 40.66" N	80° 24.35116667' W	26° 34.6776666666667' N
LOXA109	26.55528865	-80.43205157	80° 25' 55.39" W	26° 33' 19.04" N	80° 25.92316667' W	26° 33.3173333333333' N
LOXA110	26.55523973	-80.41769154	80° 25' 3.69" W	26° 33' 18.86" N	80° 25.0615' W	26° 33.3143333333333' N
LOXA111	26.52533583	-80.41314705	80° 24' 47.33" W	26° 31' 31.21" N	80° 24.7888333' W	26° 31.5201666666667' N
LOXA112	26.52712473	-80.42837332	80° 25' 42.14" W	26° 31' 37.65" N	80° 25.702333' W	26° 31.6275' N
LOXA113	26.52442784	-80.40699875	80° 24' 25.20" W	26° 31' 27.94" N	80° 24.42' W	26° 31.4656666666667' N
LOXA114	26.52439258	-80.40083965	80° 24' 3.02" W	26° 31' 27.81" N	80° 24.050333' W	26° 31.4635' N
LOXA115	26.48422578	-80.44533675	80° 26' 43.21" W	26° 29' 3.21" N	80° 26.7201667' W	26° 29.0535' N
LOXA116	26.4830586	-80.441098	80° 26' 27.95" W	26° 28' 59.01" N	80° 26.4658333' W	26° 28.9835' N
LOXA117	26.48580427	-80.4356858	80° 26' 8.47" W	26° 29' 8.90" N	80° 26.14116667' W	26° 29.1483333333333' N
LOXA118	26.48928924	-80.42639091	80° 25' 35.01" W	26° 29' 21.44" N	80° 25.5835' W	26° 29.3573333333333' N
LOXA119	26.48621462	-80.40180845	80° 24' 6.51" W	26° 29' 10.37" N	80° 24.1085' W	26° 29.1728333333333' N
LOXA120	26.49341054	-80.38307987	80° 22' 59.09" W	26° 29' 36.28" N	80° 22.9848333' W	26° 29.6046666666667' N
LOXA121	26.46767673	-80.44113231	80° 26' 28.08" W	26° 28' 3.64" N	80° 26.468' W	26° 28.0606666666667' N
LOXA122	26.46404297	-80.42843367	80° 25' 42.36" W	26° 27' 50.55" N	80° 25.706' W	26° 27.8425' N
LOXA123	26.42675307	-80.40036372	80° 24' 1.31" W	26° 25' 36.31" N	80° 24.0218333' W	26° 25.6051666666667' N
LOXA124	26.45535397	-80.23875455	80° 14' 19.52" W	26° 27' 19.27" N	80° 14.325333' W	26° 27.3211666666667' N
LOXA126	26.50601148	-80.22585171	80° 13' 33.07" W	26° 30' 21.64" N	80° 13.55116667' W	26° 30.3606666666667' N
LOXA127	26.51513474	-80.25555976	80° 15' 20.02" W	26° 30' 54.49" N	80° 15.3336667' W	26° 30.9081666666667' N
LOXA128	26.52516286	-80.3940121	80° 23' 38.44" W	26° 31' 30.59" N	80° 23.6406667' W	26° 31.5098333333333' N
LOXA129	26.58500726	-80.26608256	80° 15' 57.90" W	26° 35' 6.03" N	80° 15.965' W	26° 35.1005' N
LOXA130	26.58211881	-80.27005531	80° 16' 12.20" W	26° 34' 55.63" N	80° 16.20333' W	26° 34.9271666666667' N
LOXA131	26.57474791	-80.27764653	80° 16' 39.53" W	26° 34' 29.09" N	80° 16.6588333' W	26° 34.4848333333333' N
LOXA132	26.60900561	-80.29189939	80° 17' 30.84" W	26° 36' 32.42" N	80° 17.514' W	26° 36.5403333333333' N
LOXA133	26.6050896	-80.29557491	80° 17' 44.07" W	26° 36' 18.32" N	80° 17.7345' W	26° 36.3053333333333' N
LOXA134	26.60985664	-80.30860325	80° 18' 30.97" W	26° 36' 35.48" N	80° 18.51616667' W	26° 36.5913333333333' N
LOXA135	26.62335538	-80.31612276	80° 18' 58.04" W	26° 37' 24.08" N	80° 18.967333' W	26° 37.4013333333333' N
LOXA136	26.61879302	-80.31866688	80° 19' 7.20" W	26° 37' 7.65" N	80° 19.12' W	26° 37.1275' N
LOXA137	26.61510337	-80.32170327	80° 19' 18.13" W	26° 36' 54.37" N	80° 19.30216667' W	26° 36.9061666666667' N
LOXA138	26.60681693	-80.32666537	80° 19' 36.00" W	26° 36' 24.54" N	80° 19.6' W	26° 36.409' N
LOXA139	26.59332525	-80.33715389	80° 20' 13.75" W	26° 35' 35.97" N	80° 20.22916667' W	26° 35.5995' N
LOXA140	26.63760323	-80.34909432	80° 20' 56.74" W	26° 38' 15.37" N	80° 20.9456667' W	26° 38.2561666666667' N
LOXA141	26.42708333	80.3942	80° 23' 39.12" W	26° 38' 37.5" N	80° 23.652' W	26° 25.625' N

\* DMS = Degrees Minutes Seconds

\*\* DM = Degrees Minutes Decimal Minutes

Additional information on the coordinates for the Enhanced Water Quality Monitoring Network can be found at:

[http://sofia.usgs.gov/lox\\_monitor\\_model/workplans/EnhancedWQsamplingStations\\_.pdf](http://sofia.usgs.gov/lox_monitor_model/workplans/EnhancedWQsamplingStations_.pdf)