

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

September through December, 2014 Data Update
Submitted January 27, 2015

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	Depth1 meter	Total Depth2 meter	DCS3 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	09/02/14	F	0.10	0.21	0.28	74	23	22	22	30	259	0.007	1.2	0.003	1.7	6.4	0.024	8.8	182	U	1.7	27.8	2.0
A102	09/04/14	P	0.06	0.13	0.20					26	205				2.2	6.7	0.01		U	2.5	26.1		
A103	09/04/14	P	0.08	0.17	0.21					20	165				1.7	7.2	0.01		U	1.5	25.8		
A104	09/02/14	F	>1M	>1M	>1M	151	57	21	20	91	687	0.030	1.3	0.006	4.6	7.6	0.020	20.2	455	U	51.6	31.2	0.8
A105	09/04/14	F	0.10	0.20	0.27	121	39	25	24	63	458	0.149	1.2	0.014	1.1	6.7	0.02	13.4	306	U	9.1	26.0	1.8
A106	09/04/14	F	0.10	0.21	0.28	53	18	21	20	31	225	U	1.0	0.007	2.9	6.6	0.01	5.3	164	U	3.6	26.5	0.5
A107	09/04/14	P	0.05	0.11	0.16					22	113				0.7	6.7	0.01		U	1.1	26.0		
A108	09/04/14	P	0.07	0.14	0.22					28	163				4.1	6.6	0.01		U	0.8	27.9		
A109	09/04/14	F	0.15	0.31	0.50	40	12	17	17	18	147	U	0.9	0.007	0.8	6.4	0.01	5.8	118	U	1.4	27.5	0.5
A110	09/04/14	F	0.10	0.20	0.30	28	10	21	21	22	138	0.079	1.3	0.003	4.0	6.3	0.01	9.1	127	U	28.8	0.7	
A111	09/04/14	F	0.10	0.21	0.42	23	7	15	14	12	93	0.015	0.8	0.004	1.0	6.4	0.01	3.4	83	U	0.9	27.9	0.7
A112	09/04/14	F	0.11	0.23	0.40	34	12	15	15	15	126	U	0.8	0.004	1.4	6.2	0.01	5.3	100	U	1	27.8	0.6
A113	09/04/14	F	0.10	0.21	0.35	22	8	15	15	12	91	U	0.9	0.003	3.5	6.1	0.01	3.9	90	U	U	28.0	0.9
A114	09/03/14	F	0.12	0.24	0.38	21	7	17	17	12	87	U	1.0	U	1.6	6.1	0.008	3.3	84	U	U	27.6	0.7
A115	09/02/14	F	>1M	>1M	>1M	152	59	23	24	99	734	0.027	1.4	U	4.2	7.3	0.020	22.1	487	U	62.7	30.7	1.1
A117	09/03/14	F	0.11	0.22	0.43	130	45	31	29	88	595	U	1.3	U	0.3	6.7	0.020	22.0	410	U	29.8	26.7	4.2
A118	09/03/14	F	0.14	0.29	0.43	35	12	16	14	19	140	U	0.8	0.002	0.5	6.3	0.010	6.0	117	U	1.8	28.1	0.5
A119	09/03/14	F	0.14	0.29	0.38	60	9	18	16	15	112	U	1.0	U	2.0	6.4	0.009	4.7	98	U	U	29.0	0.6
A120	09/03/14	F	0.15	0.30	0.50	20	7	17	16	20	115	0.004	1.2	U	4.0	6.3	0.008	5.2	105	U	U	28.8	0.9
A122	09/03/14	F	0.13	0.27	0.38	85	30	22	22	44	337	U	1.0	U	0.3	6.4	0.018	10.0	238	U	7	27.4	4.7
A124	09/03/14	P	0.09	0.19	0.38					14	99				0.8	6.3	0.013		U	U	27.9		
A126	09/03/14	F	0.13	0.27	0.50	56	19	19	19	28	209	U	1.0	U	0.6	7.3	0.009	7.5	158	U	2.4	27.5	0.7
A127	09/03/14	F	0.12	0.25	0.35	17	8	21	21	19	110	U	1.5	U	2.0	6.6	0.009	4.3	108	U	U	28.5	1.0
A128	09/03/14	P	0.09	0.19	0.30					13	87				3.6	6.4	0.009		U	U	27.7		
A129	09/02/14	F	>1M	>1M	>1M	191	77	25	24	111	846	0.030	1.5	0.004	3.9	7.5	0.025	18.2	547	U	66.9	30.8	1.2
A130	09/02/14	F	0.14	0.29	0.40	146	49	27	30	103	639	U	1.7	0.003	0.2	6.7	0.015	17.6	418	U	8.8	28.5	2.0
A131	09/02/14	F	0.14	0.29	0.35	47	20	28	28	45	273	U	1.5	0.002	0.5	6.5	0.013	10.2	202	U	1.2	28.8	0.7
A132	09/02/14	F	>1M	>1M	>1M	187	74	24	24	110	829	0.038	1.4	0.004	3.7	7.4	0.026	17.2	536	U	63.5	31.2	1.1
A133	09/02/14	F	0.10	0.20	0.45	150	54	27	30	103	646	U	1.6	0.004	0.3	6.7	0.028	18.1	418	U	6.8	27.6	0.8
A134	09/02/14	F	0.12	0.24	0.41	125	46	28	27	97	583	0.008	1.5	0.004	0.5	6.7	0.010	17.2	385	U	8.2	28.8	0.8
A135	09/02/14	F	>1M	>1M	>1M	180	72	21	23	113	818	0.027	1.4	0.002	3.9	7.4	0.024	14.9	518	U	57.8	31.1	1.4
A136	09/02/14	F	0.11	0.22	0.45	225	66	31	33	125	802	U	1.9	0.005	0.7	6.9	0.027	21.9	533	U	16.5	28.3	2.1
A137	09/02/14	F	0.11	0.23	0.36	129	47	33	32	106	608	U	1.8	0.004	3.2	6.8	0.016	20.7	414	U	9.4	29.6	1.1
A138	09/02/14	F	0.10	0.21	0.30	52	18	34	34	39	249	U	2.1	U	5.7	7.0	0.010	13.8	215	U	1.1	30.1	0.7
A139	09/02/14	P	0.07	0.17	0.22					28	162				3.1	6.6	0.008		U	U	29.9		
A140	09/02/14	P	0.09	0.18	0.27					23	180				5.5	7.0	0.025		U	1.2	30.2		
A141	09/03/14	F	>1M	>1M	>1M	111	38	25	24	75	511	U	1.4	0.003	0.3	6.8	0.014	15.9	337	U	21.3	28.2	1.4
Total			37																				
Full			29																				
Partial			8																				
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.

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

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

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	Depth1 meter	Total Depth2 meter	DCS3 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 Dissolv mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU	
A101	10/07/14	F	0.21	0.42	0.65	105	33	18	18	68	448	U	1.0	0.003	0.9	6.7	0.013	12.4	280	U	10	25.7	0.3	
A102	10/07/14	F	0.20	0.41	0.59	39	11	13	14	18	142	U	0.8	U	2.9	7.4	0.008	7.0	96	U	1.9	25.9	0.4	
A103	10/07/14	F	0.20	0.41	0.50	42	11	16	16	17	145	U	0.8	U	1.2	7.1	0.008	7.7	110	U	1.3	25.8	0.4	
A104	10/06/14	F	>1M	>1M	>1M	153	52	20	20	91	650	U	1.2	0.003	3.0	8.0	0.019	14.7	405	U	37.4	27.4	0.9	
A105	10/07/14	F	0.29	0.58	0.70	114	35	17	18	64	483	U	1.0	0.003	0.5	6.9	0.015	14.8	304	U	22	25.1	0.6	
A106	10/07/14	F	0.23	0.47	0.56	76	24	16	16	44	327	0.006	0.9	0.003	2.1	6.7	0.012	13.9	213	U	10.8	26.0	0.6	
A107	10/07/14	F	0.16	0.32	0.45	36	11	15	15	15	127	0.208	0.9	U	2.3	6.8	0.010	5.3	96	U	1.1	26.2	0.5	
A108	10/07/14	F	0.20	0.41	0.50	14	4	18	19	12	75	U	1.2	U	5.4	6.9	0.007	3.3	77	U	U	27.1	0.8	
A109	10/08/14	F	0.26	0.52	0.73	46	15	15	16	29	201	U	0.7	0.002	0.8	7.2	0.005	9.4	171	U	4.9	26.0	0.8	
A110	10/08/14	F	0.21	0.42	0.58	16	5	13	14	10	72	U	0.6	0.003	2.6	7.5	0.004	4.6	87	U	U	26.6	0.7	
A111	10/08/14	F	0.27	0.54	0.68	12	4	11	11	8	57	U	0.9	0.003	4.3	7.1	0.011	2.9	55	U	0.9	26.5	0.9	
A112	10/08/14	F	0.30	0.61	0.73	32	11	14	15	16	125	U	0.8	0.005	1.3	7.0	0.007	4.9	116	U	1.9	26.0	0.7	
A113	10/08/14	F	0.22	0.44	0.63	13	5	11	12	7	57	U	0.8	0.003	4.2	6.8	0.008	2.4	52	U	U	26.8	1.0	
A114	10/08/14	F	0.26	0.52	0.55	13	5	13	13	7	56	U	0.8	U	3.7	6.9	0.010	2.2	53	U	U	26.7	0.9	
A115	10/06/14	F	>1M	>1M	>1M	195	71	30	31	125	905	0.026	1.8	0.005	3.9	8.4	0.019	23.4	574	U	71.7	28.4	0.8	
A117	10/09/14	F	0.27	0.54	0.72	107	39	23	23	72	512	0.002	1.2	0.009	0.2	7.4	0.019	17.4	348	U	34.4	25.0	1.2	
A118	10/09/14	F	0.26	0.52	0.71	36	14	16	17	30	191	0.004	0.9	U	0.5	7.2	0.010	10.5	155	U	4.2	25.9	0.6	
A119	10/09/14	F	0.33	0.66	0.70	15	5	11	11	8	63	U	0.7	U	4.3	7.4	0.004	3.2	71	U	U	26.7	0.7	
A120	10/09/14	F	0.28	0.57	0.73	12	5	11	11	9	71	0.009	0.8	0.002	4.5	7.4	0.005	3.2	72	U	U	26.6	0.7	
A122	10/09/14	F	0.27	0.54	0.70	92	33	23	22	57	407	U	1.1	0.004	0.1	7.2	0.014	12.3	283	U	16.7	25.7	1.0	
A124	10/08/14	F	0.29	0.58	0.75	22	8	13	14	12	86	0.022	0.4	0.004	0.7	6.4	0.017	2.9	72	U	U	25.5	0.9	
A126	10/09/14	F	0.28	0.57	0.76	93	35	19	19	62	412	0.006	1.0	0.003	0.4	7.5	0.009	13.3	298	U	14.9	25.8	1.0	
A127	10/09/14	F	0.24	0.48	0.54	14	6	15	15	11	73	0.022	1.1	0.005	2.8	7.3	0.006	3.6	85	U	U	26.4	1.0	
A128	10/08/14	F	0.24	0.48	0.56	12	4	12	12	7	52	U	0.8	U	4.3	6.8	0.012	2.0	51	U	U	27.3	1.0	
A129	10/06/14	F	>1M	>1M	>1M	229	91	29	29	129	970	0.122	1.8	0.007	2.8	7.8	0.022	18.0	618	U	71.5	26.9	1.0	
A130	10/06/14	F	0.28	0.57	0.70	187	63	23	24	108	742	U	1.3	0.003	0.4	7.2	0.014	12.5	451	U	35.4	26.1	0.9	
A131	10/06/14	F	0.29	0.58	0.62	98	28	40	22	66	370	U	1.2	0.003	2.0	6.6	0.007	14.2	254	U	2.6	25.9	0.5	
A132	10/06/14	F	>1M	>1M	>1	235	96	30	31	130	995	0.118	1.8	0.010	4.6	7.9	0.025	18.8	640	U	76.5	27.4	0.7	
A133	10/06/14	F	0.28	0.56	0.71	158	60	24	24	104	698	U	1.0	0.003	1.0	7.1	0.020	13.3	429	U	29.8	26.0	0.8	
A134	10/06/14	F	0.28	0.56	0.67	165	59	22	22	107	725	U	1.2	U	0.8	7.2	0.014	11.8	442	U	33.9	26.4	0.6	
A135	10/06/14	F	>1M	>1M	>1M	267	101	37	37	130	1066	0.189	2.1	0.014	2.7	7.8	0.030	21.3	691	U	92.6	26.2	0.7	
A136	10/06/14	F	0.31	0.62	0.90	214	78	28	28	128	908	U	1.5	0.004	0.6	7.0	0.025	16.2	571	U	54	26.4	1.2	
A137	10/06/14	F	0.30	0.60	0.66	160	60	22	23	102	701	U	1.0	U	2.9	7.6	0.012	12.0	425	U	34.6	26.6	0.6	
A138	10/06/14	F	0.24	0.49	0.55	120	44	21	21	91	571	U	0.9	0.003	5.5	6.8	0.007	13.2	361	U	21.2	27.1	0.4	
A139	10/06/14	F	0.21	0.42	0.54	23	10	28	27	22	126	U	1.3	U	5.3	7.2	0.008	6.1	131	U	0.8	26.5	0.6	
A140	10/07/14	F	0.22	0.44	0.58	93	31	21	21	82	472	U	1.1	U	3.0	6.7	0.010	11.9	289	U	9.3	25.8	0.4	
A141	10/09/14	F	>1M	>1M	>1M	90	32	22	22	66	449	U	1.1	U	0.4	7.7	0.010	14.0	304	U	22.6	26.0	0.8	
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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A101	11/11/14	F	0.20	0.40	0.52	102	31	18	18	73	450	0.007	0.9	0.006	2.4	6.9	0.011	13.4	283	U	7.9	19.7	0.3	
A102	11/12/14	F	0.14	0.28	0.42	41	12	16	15	18	144	U	0.8	0.006	3.9	6.8	0.007	7.5	123	U	1.6	19.3	0.4	
A103	11/12/14	F	0.17	0.34	0.42	41	11	17	17	15	125	U	0.8	0.004	2.7	7.6	0.006	4.6	110	U	1.2	18.9	0.5	
A104	11/10/14	F	>1M	>1M	>1	163	54	23	23	92	667	0.024	1.4	0.006	4.0	7.9	0.021	14.9	442	U	35.9	21.4	1.0	
A105	11/12/14	F	0.21	0.42	0.51	64	20	14	14	38	265	0.014	0.7	0.007	2.0	6.3	0.008	11.0	175	U	7.1	19.2	0.4	
A106	11/12/14	F	0.12	0.25	0.42	39	13	14	14	19	148	U	0.7	0.004	2.7	6.4	0.007	5.3	106	U	2.1	19.1	0.4	
A107	11/12/14	F	0.16	0.32	0.35	33	10	18	18	18	130	0.006	1.0	0.004	2.1	6.4	0.006	5.4	106	U	1	19.5	0.4	
A108	11/12/14	F	0.16	0.32	0.40	13	5	23	23	17	91	0.010	1.5	U	6.2	6.5	0.006	3.1	104	U	U	21.4	0.7	
A109	11/12/14	F	0.29	0.59	0.71	36	10	14	13	17	131	U	0.7	0.004	1.4	6.1	0.004	5.7	103	U	1.5	21.0	0.6	
A110	11/12/14	F	0.20	0.40	0.50	21	7	14	17	14	92	0.035	1.1	0.004	6.3	6.4	0.004	3.9	87	U	0.7	21.8	0.7	
A111	11/12/14	F	0.21	0.42	0.57	16	6	14	14	10	73	0.004	0.7	0.003	6.9	6.1	0.003	3.7	73	U	0.8	20.8	0.6	
A112	11/12/14	F	0.23	0.47	0.60	26	8	13	13	13	97	0.003	0.8	0.003	3.0	6.1	0.005	4.6	86	U	0.9	20.7	0.5	
A113	11/12/14	F	0.20	0.40	0.51	15	5	14	14	10	67	0.003	0.9	0.003	7.5	6.3	0.003	2.8	64	U	0.8	22.6	0.6	
A114	11/13/14	F	0.22	0.44	0.61	13	5	14	14	10	65	0.004	0.8	0.002	6.2	7.1	0.004	2.5	64	U	U	21.5	0.7	
A115	11/10/14	F	>1M	>1M	>1	187	63	26	28	119	832	0.013	1.6	0.007	3.9	7.8	0.021	20.4	540	U	58.5	21.7	1.0	
A117	11/13/14	F	0.15	0.30	0.59	110	33	24	20	74	482	U	1.1	0.010	1.2	6.8	0.011	18.5	287	U	16.3	19.8	0.7	
A118	11/13/14	F	0.17	0.34	0.65	30	10	13	14	19	126	U	0.7	0.005	2.8	6.9	0.003	7.8	89	U	1.4	22.1	0.5	
A119	11/13/14	F	0.24	0.48	0.58	24	7	13	14	11	87	0.004	0.8	0.003	7.0	7.2	0.004	3.8	80	U	0.7	23.0	0.5	
A120	11/13/14	F	0.22	0.44	0.67	14	5	13	13	13	81	U	1.0	0.004	6.9	7.4	0.005	4.6	72	U	U	22.5	0.8	
A122	11/13/14	F	0.22	0.45	0.59	96	29	22	22	52	367	U	1.0	0.008	0.6	6.7	0.010	12.2	247	U	7	20.7	0.8	
A124	11/13/14	F	0.20	0.40	0.67	25	8	13	13	15	105	U	0.7	0.007	2.5	7.0	0.013	3.6	81	U	0.8	20.4	0.4	
A126	11/13/14	F	0.23	0.46	0.71	41	13	14	14	20	150	U	0.9	0.005	3.8	6.9	0.004	6.7	117	U	1.4	20.6	0.6	
A127	11/13/14	F	0.17	0.34	0.63	14	6	15	15	14	79	U	1.1	U	6.1	7.2	0.003	4.0	77	U	U	21.6	0.9	
A128	11/13/14	F	0.20	0.40	0.47	13	4	15	15	10	66	U	1.2	0.002	6.3	7.3	0.005	2.5	69	U	U	21.9	0.8	
A129	11/10/14	F	>1M	>1M	>1	218	75	27	28	148	960	0.019	1.7	0.003	3.2	7.5	0.023	13.6	616	U	47.3	22.1	1.3	
A130	11/11/14	F	0.26	0.53	0.60	129	42	20	22	94	572	0.005	1.1	0.005	0.9	2.4	0.009	14.4	370	U	9.4	20.0	0.6	
A131	11/11/14	F	0.24	0.48	0.52	45	17	19	18	50	255	U	1.2	0.004	5.8	8.0	0.002	8.4	191	U	0.9	20.1	0.6	
A132	11/10/14	F	>1M	>1M	>1	200	72	23	25	161	973	0.055	1.6	0.003	2.9	7.6	0.024	9.8	604	U	48.7	21.6	2.2	
A133	11/11/14	F	0.15	0.30	0.54	168	55	24	25	115	707	U	1.5	0.006	1.4	6.9	0.020	13.5	435	U	12.9	20.1	1.3	
A134	11/11/14	F	0.25	0.50	0.56	139	46	22	22	98	614	0.046	1.2	0.005	1.7	7.0	0.009	11.9	388	U	14.7	20.4	0.6	
A135	11/10/14	F	>1M	>1M	>1	195	70	22	23	193	1091	0.060	1.9	0.004	4.5	7.7	0.021	5.9	670	U	61	22.4	2.4	
A136	11/11/14	F	0.29	0.58	0.76	174	56	25	24	113	722	U	1.4	0.005	2.7	6.9	0.014	14.2	439	U	20.1	20.5	1.8	
A137	11/11/14	F	0.20	0.41	0.55	128	41	21	20	92	572	0.006	1.2	0.003	4.7	6.9	0.009	11.7	370	U	14.4	20.9	0.5	
A138	11/11/14	F	0.20	0.41	0.48	66	23	27	26	67	351	U	1.6	0.004	7.5	6.6	U	7.8	251	U	1.7	20.7	0.7	
A139	11/11/14	F	0.17	0.35	0.41	16	9	33	33	25	130	U	2.1	U	5.7	7.7	0.005	2.6	153	U	0.8	20.5	0.7	
A140	11/11/14	F	0.18	0.37	0.45	53	18	23	24	39	237	0.021	1.3	0.002	6.1	7.5	0.011	5.1	177	U	1.6	21.4	0.5	
A141	11/13/14	F	>1	>1	>1	85	25	15	19	54	362	U	1.0	0.007	0.4	6.9	0.003	12.0	235	U	7.9	20.4	0.9	
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.

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

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

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	Depth1 meter	Total Depth2 meter	DCS3 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 Dissolv mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU
A101	12/11/14	F	0.17	0.35	0.40	185	63	27	27	154	889	0.013	1.6	0.005	3.6	7.0	0.012	12.4	563	U	34.8	19.5	0.3
A102	12/11/14	F	0.15	0.30	0.37	51	12	16	16	22	168	0.015	0.9	0.003	8.3	6.6	0.007	7.8	122	U	1.7	16.0	0.3
A103	12/11/14	F	0.15	0.30	0.38	41	12	18	18	20	156	0.007	0.9	U	7.0	6.7	0.006	4.4	117	U	1.2	16.8	0.4
A104	12/11/14	F	>1M	>1M	>1M	207	60	23	24	165	941	0.049	1.5	0.005	5.3	7.3	0.016	7.0	562	U	43.3	18.8	0.7
A105	12/11/14	F	0.17	0.35	0.52	68	20	15	15	37	273	0.006	0.8	0.003	5.2	6.7	0.010	9.7	180	U	5.8	16.4	0.3
A106	12/11/14	F	0.15	0.30	0.44	46	13	15	15	23	172	0.004	0.7	0.002	5.2	6.5	0.007	6.4	121	U	2.2	16.8	0.4
A107		N																					
A108	12/11/14	F	0.14	0.29	0.33	14	6	29	24	22	115	U	1.6	U	9.5	7.0	0.007	1.8	120	U	U	18.6	0.6
A109	12/10/14	F	0.22	0.45	0.57	37	11	15	14	20	146	U	0.8	U	0.4	6.5	0.006	6.1	108	U	1.3	16.2	0.4
A110	12/10/14	F	0.16	0.33	0.46	22	7	19	19	17	107	0.041	1.5	0.002	6.6	6.3	0.006	3.0	99	U	U	14.8	0.8
A111	12/10/14	F	0.20	0.41	0.51	15	6	15	14	13	85	0.002	0.8	U	7.5	6.5	0.005	4.2	68	U	0.8	15.8	0.5
A112	12/10/14	F	0.22	0.45	0.56	27	8	13	13	15	107	U	0.8	0.002	2.0	6.5	0.006	4.8	83	U	1	15.4	0.6
A113	12/10/14	F	0.11	0.42	0.53	16	5	15	14	13	84	U	0.9	0.003	9.1	6.9	0.005	2.4	78	U	U	15.3	0.5
A114	12/10/14	F	0.16	0.33	0.44	13	5	15	14	12	79	U	1.0	0.006	7.1	6.5	0.008	2.3	66	U	U	15.5	0.6
A115	12/11/14	F	>1M	>1M	>1M	202	56	26	26	124	808	0.024	1.6	0.015	5.8	7.2	0.017	14.4	503	U	45.3	18.8	0.6
A117	12/08/14	F	0.17	0.34	0.57	109	31	23	22	66	421	0.010	1.1	0.006	1.5	6.7	0.014	19.2	281	U	9.4	19.0	0.9
A118	12/08/14	F	0.19	0.38	0.57	38	11	14	13	20	137	U	0.7	U	1.6	6.5	0.005	9.1	108	U	1.2	20.0	0.5
A119	12/08/14	F	0.20	0.41	0.58	29	8	16	15	13	97	0.004	0.9	U	8.6	7.2	0.005	4.3	87	U	0.8	21.5	0.4
A120	12/08/14	F	0.16	0.33	0.60	21	6	15	14	16	94	0.004	1.0	U	9.4	7.0	0.005	5.2	81	U	0.7	20.9	0.5
A122	12/08/14	F	0.17	0.34	0.57	104	30	22	23	54	367	U	1.1	0.007	1.9	6.9	0.016	13.5	252	U	5.3	19.8	0.7
A124	12/10/14	F	0.20	0.40	0.65	25	9	13	13	18	112	U	0.6	0.002	1.7	6.3	0.010	4.5	86	U	0.8	17.3	0.4
A126	12/08/14	F	0.19	0.38	0.64	49	14	14	14	22	163	U	1.0	U	2.3	6.7	0.006	6.4	124	U	1.4	19.9	0.5
A127	12/08/14	F	0.18	0.36	0.52	15	6	17	16	16	90	0.024	1.1	U	7.0	7.0	0.005	4.5	84	U	0.8	20.1	0.7
A128	12/10/14	F	0.16	0.32	0.38	13	5	17	16	13	77	U	1.2	U	8.1	6.9	0.006	1.8	70	U	U	15.2	0.7
A129	12/11/14	F	>1M	>1M	>1M	216	69	19	19	172	1016	0.010	1.3	0.005	7.5	7.6	0.015	10.0	614	U	71.4	17.3	0.7
A130	12/11/14	F	0.21	0.42	0.56	144	43	24	24	109	635	0.021	1.4	0.005	0.6	6.8	0.010	14.5	396	U	6.4	15.7	0.3
A131	12/11/14	F	0.22	0.45	0.54	60	18	20	20	59	298	U	1.2	0.002	3.0	6.5	0.005	6.1	201	U	1	14.8	0.3
A132	12/11/14	F	>1M	>1M	>1M	205	67	17	17	162	966	0.010	1.2	0.007	9.0	7.6	0.012	10.2	588	U	69.5	16.5	0.6
A133	12/11/14	F	0.11	0.23	0.53	168	53	26	26	124	726	U	1.6	0.005	3.5	6.8	0.013	14.8	450	U	8.4	15.2	0.3
A134	12/11/14	F	0.16	0.33	0.59	156	48	24	25	115	683	0.038	1.4	0.004	0.7	6.8	0.012	13.8	421	U	10.3	15.5	0.3
A135	12/11/14	F	>1M	>1M	>1M	211	69	18	19	160	965	0.007	1.3	0.006	9.0	7.6	0.015	10.7	588	U	68.9	16.3	0.7
A136	12/11/14	F	0.17	0.35	0.75	178	60	24	24	158	894	0.012	1.5	0.004	0.6	6.9	0.009	10.0	546	U	33.9	15.4	0.4
A137	12/11/14	F	0.18	0.37	0.47	156	48	24	25	109	674	0.014	1.5	0.005	5.0	7.0	0.007	14.1	409	U	11.7	15.5	0.3
A138	12/11/14	F	0.18	0.37	0.45	90	29	25	26	83	450	0.012	1.6	0.003	6.2	7.1	0.007	8.9	297	U	3.2	15.4	0.3
A139	12/11/14	F	0.16	0.34	0.41	23	10	35	35	29	149	0.003	2.1	U	6.3	6.5	0.007	1.0	151	U	0.8	14.3	0.5
A140	12/11/14	F	0.15	0.31	0.42	66	22	23	23	59	333	U	1.1	0.002	8.2	7.1	0.009	7.9	222	U	2.2	14.8	0.3
A141	12/08/14	F	>1M	>1M	>1M	76	25	18	18	51	331	0.007	1.0	0.004	2.2	6.8	0.008	12.9	217	U	5.1	20.1	0.5
Total			37																				
Full			36																				
Partial			0																				
None			1																				

(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.

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

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

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**

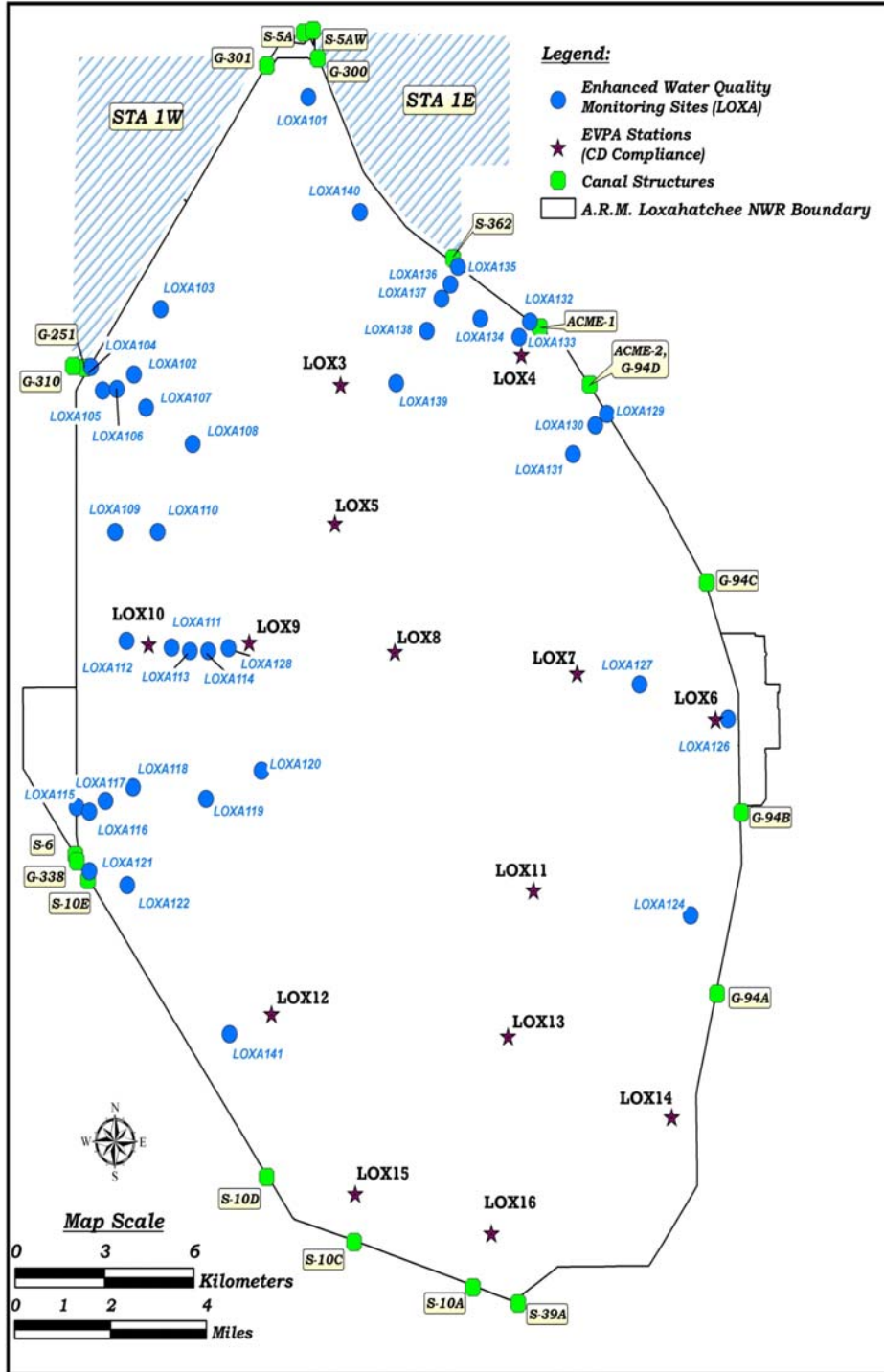
Parameter Information:

Parameter	Units	Analysis Method	MDL
Alkalinity as CaCO ₃ , 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